

# Handbook 2017

## **Authoritative Handbook**

---

This is the standard reference Handbook for 2017. It contains the final version of course, major and minor structures for the given academic year. Ancillary changes may take place after the Authoritative Handbook is generated (such as to unit offerings) and new courses may be offered; these will be reflected in the online Handbook (and thus appear in any print Handbook generated subsequently). Nonetheless, the Authoritative Handbook remains the reference point for the determination of matters relating to the degree regulations, academic progress, credit and exemptions etc.

**Murdoch University**

---

Correct as at: 4 September 2018 at 4:07pm

Correct as at: 4 September 2018 at 4:07pm

The information contained within this publication was correct as at the generated date shown above but is subject to amendment without notice.

Enquiries concerning its contents should be addressed to:

University Secretary  
Murdoch University  
South Street  
Murdoch  
Western Australia 6150

Telephone: (08) 9360 6000

Facsimile: (08) 9360 6847

<http://www.murdoch.edu.au>

TEQSA Number PRV12163; CRICOS Provider Code: 00125J

#### **Cancellation of Courses, Majors, Minors and Units**

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

#### **Alternative Formats**

Handbook home page:

<http://handbook.murdoch.edu.au>

This publication can also be provided in alternative formats by contacting the Equity and Social Inclusion Office at Murdoch University

Telephone: (08) 9360 6084

Facsimile: (08) 9360 6502

[equity@murdoch.edu.au](mailto:equity@murdoch.edu.au)

<http://goto.murdoch.edu.au/EquitySocialInclusion>

ISSN 0815-9068

Published by

University Secretary's Office

Murdoch University



© Murdoch University 2018

This Handbook, and its sections as individual works, is licensed under a Creative Commons Attribution Noncommercial No Derivative Works Australia 2.5 licence. You may download, reproduce, communicate, print and distribute copies of the Handbook (or any part of it) as long as it is for non-commercial purposes, you do not alter the content, and you attribute Murdoch University as the original author. For more information on this licence, see <http://creativecommons.org/licenses/by-nc-nd/2.5/au/>

# Contents

<b>University Preparation (Access and Enabling)</b> ....	1	Computer Science (BSc) .....	58
<b>University Preparation (Access and Enabling): List</b> .....	1	Computer Science Honours (BSc(Hons)).....	59
<b>University Preparation (Access and Enabling): Details</b> ....	2	<b>Conservation and Wildlife Biology</b> .....	59
<b>Kulbardi Aboriginal Centre</b> .....	2	Conservation and Wildlife Biology (BSc) .....	59
Ngoolark: BA, BEd, BBus and BNurs Extension Program .....	2	Conservation and Wildlife Biology Honours (BSc(Hons)).....	64
<b>University Preparation</b> .....	2	<b>Criminology</b> .....	64
FlexiTrack .....	2	Criminology (BA).....	64
K-Track .....	2	Criminology Honours (BA(Hons)) .....	66
OnTrack .....	3	<b>Crop and Pasture Science</b> .....	66
OnTrack Sprint .....	3	Crop and Pasture Science (BSc) .....	66
<b>Veterinary Science</b> .....	3	Crop and Pasture Science Honours (BSc(Hons)).....	70
Wardong .....	3	<b>Cyber Forensics, Information Security and Management</b> .....	71
<b>Bachelor and Honours Degrees</b> .....	5	Cyber Forensics and Information Security (BSc).....	71
<b>Bachelor and Honours Degrees: List</b> .....	5	Cyber Forensics and Information Security Honours (BSc(Hons)) ....	72
<b>Bachelor and Honours Degrees: Details</b> .....	12	<b>Economics</b> .....	72
<b>Accounting</b> .....	12	Economics (BBus) .....	73
Accounting (BBus) .....	12	Economics Honours (BBus(Hons)).....	74
Accounting Honours (BBus(Hons)).....	13	<b>Education</b> .....	74
<b>Animal Health</b> .....	13	Early Childhood and Primary Teaching (BEd) .....	74
Animal Health (BSc).....	13	Primary, 1-10 Health and Physical Education (BEd).....	76
Animal Health Honours (BSc(Hons)) .....	18	Primary Teaching (BEd) .....	78
<b>Animal Science</b> .....	19	Secondary Teaching (Arts Combined Drama) (BEd+BA) .....	81
Animal Science (BSc).....	19	Secondary Teaching (Arts Combined English) (BEd+BA) .....	84
Animal Science Honours (BSc(Hons)) .....	23	Secondary Teaching (Arts Combined History) (BEd+BA) .....	86
<b>Asian Studies</b> .....	24	Secondary Teaching (Arts Combined Languages other than English (Indonesian)) (BEd+BA).....	89
Asian Studies (BA) .....	24	Secondary Teaching (Arts Combined Languages other than English (Japanese)) (BEd+BA).....	91
Indonesian (BA) .....	25	Secondary Teaching (Combined Science Degrees) (BEd+BSc).....	94
Japanese (BA) .....	26	Secondary Teaching (Science Combined Mathematics) (BEd+BSc) .	97
Asian Studies Honours (BA(Hons)).....	28	Secondary Teaching (Science Combined Sport and Health Science) (BEd+BSc) .....	99
<b>Australian Indigenous Studies</b> .....	28	<b>Engineering</b> .....	101
Australian Indigenous Studies (BA) .....	28	Electrical Power Engineering Honours (BE(Hons)) .....	101
Australian Indigenous Studies Honours (BA(Hons)).....	29	Environmental Engineering Honours (BE(Hons)) .....	103
<b>Banking</b> .....	30	Industrial Computer Systems Engineering Honours (BE(Hons)) .....	104
Banking (BBus).....	30	Instrumentation and Control Engineering Honours (BE(Hons)) .....	106
Banking Honours (BBus(Hons)) .....	31	Renewable Energy Engineering Honours (BE(Hons)).....	107
<b>Biological Sciences</b> .....	31	<b>Engineering Technology</b> .....	108
Biological Sciences (BSc).....	31	Engineering Technology (BSc) .....	108
Biological Sciences Honours (BSc(Hons)).....	36	<b>English and Creative Writing</b> .....	114
<b>Biomedical Science</b> .....	36	English and Creative Writing (BA).....	114
Biomedical Science (BSc).....	36	English and Creative Writing Honours (BA(Hons)) .....	115
Biomedical Science Honours (BSc(Hons)) .....	41	<b>Environmental Management</b> .....	115
<b>Biotechnology</b> .....	42	Environmental Management and Sustainability (BSc).....	115
Biotechnology Honours (BSc(Hons)) .....	42	Environmental Management and Sustainability Honours (BSc(Hons)) .....	120
<b>Business Information Systems</b> .....	42	<b>Environmental Science</b> .....	120
Business Information Systems (BSc).....	42	Environmental Science (BSc).....	120
Business Information Systems (BSc).....	43	Environmental Science Honours (BSc(Hons)) .....	125
Business Information Systems Honours (BSc(Hons)) .....	44	<b>Exercise Physiology</b> .....	125
<b>Business Law</b> .....	44	Clinical Exercise Physiology (BSc+GradDipClinExPhys).....	125
Business Law (BBus) .....	44	Exercise Physiology Honours (BSc(Hons)).....	127
Business Law Honours (BBus(Hons)).....	46	<b>Extractive Metallurgy</b> .....	127
<b>Chemistry</b> .....	46	Chemical and Metallurgical Engineering Honours (BE(Hons)).....	127
Chemistry (BSc).....	46	<b>Finance</b> .....	129
Chemistry Honours (BSc(Hons)).....	51	Finance (BBus) .....	129
<b>Chiropractic</b> .....	52	Finance Honours (BBus(Hons)).....	130
Chiropractic Science + Clinical Chiropractic (BSc+BClinChiro).....	52	<b>Forensic Biology</b> .....	130
Chiropractic Honours (BSc(Hons)).....	53	Forensic Biology and Toxicology (BSc) .....	130
<b>Communication and Media Studies</b> .....	53	Forensic Biology and Toxicology Honours (BSc(Hons)).....	135
Communication and Media Studies (BA).....	54	<b>Games Art and Design</b> .....	136
Communication and Media Studies Honours (BA(Hons)) .....	55	Games Art and Design (BA) .....	136
<b>Community Development</b> .....	55	Games Art and Design Honours (BA(Hons)).....	137
Community Development (BA) .....	55		
Community Development Honours (BA(Hons)) .....	56		
<b>Computer Science</b> .....	57		
Computer Science (BSc) .....	57		

<b>Games Software Design and Production</b> .....	137	<b>Molecular Biology</b> .....	201
Games Software Design and Production (BSc).....	138	Genetics and Molecular Biology (BSc) .....	201
Games Software Design and Production Honours (BSc(Hons)) .....	139	Molecular Biology Honours (BSc(Hons)) .....	206
<b>Games Technology</b> .....	139	<b>Nursing</b> .....	206
Games Technology (BSc).....	139	Nursing (BNurs) .....	206
Games Technology Honours (BSc(Hons)) .....	140	Nursing (BNurs) .....	208
<b>Global Politics and Policy</b> .....	140	Nursing Honours (BNurs(Hons)).....	210
Global Politics and Policy (BA) .....	141	<b>Philosophy</b> .....	210
<b>Graphic Design</b> .....	142	Philosophy (BA) .....	210
Graphic Design Honours (BA(Hons)) .....	142	Philosophy Honours (BA(Hons)) .....	211
<b>History</b> .....	142	<b>Photography</b> .....	212
History (BA).....	142	Photography (BA).....	212
History Honours (BA(Hons)) .....	144	Photography Honours (BA(Hons)) .....	213
<b>Hospitality and Tourism Management</b> .....	144	<b>Physics and Nanotechnology</b> .....	213
Hospitality and Tourism Management (BBus).....	144	Physics and Nanotechnology (BSc) .....	213
<b>Human Resources Management</b> .....	145	Physics and Nanotechnology Honours (BSc(Hons)).....	218
Human Resources Management (BBus) .....	145	<b>Politics and International Studies</b> .....	219
<b>Interactive Digital Design</b> .....	147	Global Politics and Policy Honours (BA(Hons)).....	219
Graphic Design (BA).....	147	<b>Psychology</b> .....	219
<b>International Aid and Development</b> .....	148	Psychology (BA) .....	219
International Aid and Development (BA) .....	148	Psychology (BSc) .....	221
<b>International Business</b> .....	149	Psychology (Kaplan, Singapore) (BA) .....	222
International Business (BBus).....	149	Psychology Honours (BA(Hons)).....	223
<b>Internet Software Development</b> .....	150	Psychology Honours (BSc(Hons)).....	224
Mobile and Web Application Development (BSc).....	150	<b>Public Relations</b> .....	224
Mobile and Web Application Development Honours (BSc(Hons))..	151	Public Relations (BA).....	224
<b>Internetworking and Network Security</b> .....	152	Public Relations Honours (BA(Hons)) .....	225
Internetworking and Network Security (BSc) .....	152	<b>Radio</b> .....	226
Internetworking and Network Security Honours (BSc(Hons)).....	153	Radio (BA) .....	226
<b>Journalism</b> .....	153	Radio Honours (BA(Hons)).....	227
Journalism (BA).....	153	<b>Religion</b> .....	227
Journalism Honours (BA(Hons)) .....	154	Religion (BA) .....	227
<b>Laboratory Medicine</b> .....	155	Religion Honours (BA(Hons)).....	228
Laboratory Medicine (BSc/BLabMed) .....	155	<b>Screen Production</b> .....	229
<b>Laboratory Science</b> .....	157	Screen Production (BA).....	229
Clinical Laboratory Science (BSc) .....	157	Screen Production Honours (BA(Hons)) .....	230
<b>Law</b> .....	161	<b>Security, Terrorism and Counterterrorism</b> .....	230
Law (LLB/LLB(Hons)) .....	161	Security, Terrorism and Counterterrorism Studies (BA) .....	231
Law + Arts [Combined] (LLB+BA).....	164	<b>Sociology</b> .....	232
Law + Business [Combined] (LLB+BBus).....	167	Sociology (BA) .....	232
Law + Science [Combined] (LLB+BSc).....	170	Sociology Honours (BA(Hons)).....	233
Law - Graduate Entry (LLB).....	172	<b>Sound</b> .....	233
Law Honours (LLB(Hons)) .....	175	Sound (BA).....	233
<b>Law, Business and Society</b> .....	175	Sound Honours (BA(Hons)) .....	235
Law, Business and Society (BA) .....	175	<b>Sports Science</b> .....	235
Law, Business and Society Honours (BA(Hons)) .....	176	Movement Science (BSc).....	235
<b>Management</b> .....	177	Sport and Health Science (BSc) .....	240
Management (BBus) .....	177	Movement Science Honours (BSc(Hons)) .....	244
Management Honours (BBus(Hons)).....	178	Sport and Health Science Honours (BSc(Hons)).....	245
<b>Marine Biology</b> .....	178	<b>Sustainability</b> .....	245
Marine Biology (BSc) .....	178	Sustainable Development (BA).....	245
<b>Marine Science</b> .....	183	Sustainable Development Honours (BA(Hons)) .....	246
Marine Science (BSc).....	183	<b>Theatre and Drama</b> .....	246
Marine Science Honours (BSc(Hons)) .....	188	Theatre and Drama (BA).....	247
<b>Marketing</b> .....	188	Theatre and Drama Honours (BA(Hons)).....	248
Marketing (BBus).....	188	<b>Tourism and Events</b> .....	248
Marketing Honours (BBus(Hons)) .....	189	Tourism and Events (BA).....	248
<b>Mathematics and Statistics</b> .....	190	Tourism and Events Honours (BA(Hons)) .....	249
Mathematics and Statistics (BSc).....	190	<b>Veterinary Science</b> .....	250
Mathematics and Statistics Honours (BSc(Hons)) .....	195	Veterinary Science (BSc+DVM) .....	250
<b>Mineral Science</b> .....	195	Veterinary Biology Honours (BSc(Hons)).....	253
Mineral Science (BSc) .....	195	<b>Web Communication</b> .....	253
Mineral Science Honours (BSc(Hons)).....	200	Web Communication (BA).....	253
<b>Miscellaneous</b> .....	201	Web Communication Honours (BA(Hons)) .....	254
Double Degree Five Year .....	201	<b>Minors</b> .....	256
Double Degree Four Year .....	201	<b>Minors: List</b> .....	256

Minors: Details .....	258	<b>Sustainable Development</b> .....	272
3D Animation .....	258	<b>Teaching Indonesian in Primary Schools</b> .....	272
Anthropology .....	258	<b>Teaching Japanese in Primary Schools</b> .....	272
Applied Animal Production .....	258	<b>Theatre and Drama</b> .....	273
Applied Statistics .....	258	<b>Tourism</b> .....	273
Asian Studies .....	258	<b>Waste and Water Management</b> .....	273
Australian Indigenous Studies .....	259	<b>Web Design</b> .....	273
Biomedical Science .....	259	<b>Web Development</b> .....	274
Business Law .....	259	<b>Web Strategy</b> .....	274
Communication .....	260	<b>Wildlife Conservation</b> .....	274
Computer Forensics and Computer Security .....	260	<b>Graduate Courses</b> .....	275
Computer Forensics and Information Security Policy .....	260	<b>Graduate Coursework Degrees and Professional Doctorates: List</b> .....	275
Creative Writing .....	260	<b>Graduate Research Degrees: List</b> .....	279
Crime Science .....	260	<b>Graduate Courses: Details</b> .....	281
Criminological Psychology .....	261	<b>Accounting</b> .....	281
Critical and Human Security .....	261	Master of Professional Accounting (MPA) .....	281
Ecosystem Management .....	261	<b>Asian Studies</b> .....	281
English and Literacy Education .....	261	Graduate Certificate in Asian Studies (GradCertAsianSt) .....	281
Environmental Issues .....	261	Graduate Diploma in Asian Language (In-Country) (GradDipAsianLangIn-Country) .....	282
Equine Science .....	262	Graduate Diploma in Asian Studies (GradDipAsianSt) .....	282
Ethics .....	262	Master of Asian Studies (MAAsianSt) .....	283
Events .....	262	<b>Biosecurity</b> .....	284
Fisheries Science .....	262	Master of Biosecurity (MBiosec) .....	284
Forensic Biology .....	263	<b>Business Administration</b> .....	285
Games Design .....	263	Graduate Certificate in Business Administration (GradCertBusAdmin) .....	285
Gender Studies .....	263	Graduate Certificate in Business Administration (MasterClass) (GradCertBusAdmin) .....	285
Human Anatomy .....	263	Master of Business Administration (MBA) .....	286
Human Resources Management .....	263	Master of Business Administration Professional Practice (MBA(PP)) .....	287
Inclusive Education .....	264	<b>Communication and Media Studies</b> .....	288
Indonesian .....	264	Master of Communication Management (MCommM) .....	288
Industrial and Applied Mathematics .....	264	<b>Community Development</b> .....	289
International Aid and Development .....	264	Graduate Certificate in Community Development (GradCertCommDev) .....	289
Japanese .....	265	Graduate Diploma in Community Development (GradDipCommDev) .....	289
Journalism .....	265	Master of Community Development (MCommDev) .....	290
Law and Justice .....	265	<b>Counselling</b> .....	291
Literature .....	265	Graduate Certificate in Counselling (GradCertCounsel) .....	291
Marine Biology .....	265	Graduate Diploma in Counselling (GradDipCounsel) .....	291
Mathematics and Numeracy Education .....	266	Graduate Diploma in Creative Arts Therapies (GradDipArtTherapy) .....	292
Media Studies .....	266	Master of Counselling (MCounsel) .....	292
Modern History .....	266	<b>Development Studies</b> .....	293
Molecular Biology .....	266	Graduate Certificate in Policy and Development (GradCertPDev) .....	293
Nature Based Tourism .....	267	Master of Development Studies (MDS) .....	294
Network Design .....	267	<b>Early Childhood Education</b> .....	295
Network Security .....	267	Graduate Certificate in Early Childhood Education (GradCertEarlyChildEd) .....	295
Neuroscience .....	267	<b>Education</b> .....	296
Organic and Biological Chemistry .....	267	Graduate Certificate in Education (International Education) (GradCertEdIntlEd) .....	296
Philosophy .....	268	Graduate Certificate in Education (Secondary Mathematics 7-10) (GradCertEd(SecMaths)) .....	296
Photography .....	268	Graduate Certificate in Education (Secondary Science 7-10) (GradCertEd(SecSci)) .....	297
Plant Biology .....	268	Graduate Diploma in Education (Early Childhood Education and Care) (GradDipEd(ECE&C)) .....	297
Politics .....	268	Graduate Diploma in Education (Secondary) (GradDipEd) .....	298
Popular Culture, Indigeneity and Nationhood .....	268	Master of Education (Coursework) (MEd) .....	299
Print Design .....	269	Master of Education (Research) (MEd(Res)) .....	300
Public Policy .....	269	Master of Teaching (Primary) (MTeachPrim) .....	301
Public Relations .....	269	Doctor of Education (EdD) .....	302
Radio .....	269	<b>Energy Studies</b> .....	303
Religion .....	270	Graduate Certificate in Energy and Carbon Studies (GradCertEnCbSt) .....	303
Resource Management .....	270	Graduate Diploma in Energy and Carbon Studies (GradDipEnCbSt) .....	304
Screen Production .....	270		
Security, Terrorism and Counterterrorism .....	270		
Social, Cultural and Literary Theory .....	270		
Social Justice in Contemporary Culture .....	271		
Social and Developmental Psychology .....	271		
Sound Production .....	271		
Sound Studies .....	271		
Sport Psychology .....	272		
Sustainability, Ecosystems and Community Development .....	272		

Master of Renewable and Sustainable Energy (MRenSusEn).....	304	Graduate Certificate in Australian Migration Law and Practice (GradCertAusMigLaw).....	332
<b>Energy and the Environment</b> .....	305	<b>Plant Biosecurity</b> .....	333
Graduate Diploma in Energy and the Environment (GradDipEnEnv) .....	305	Graduate Certificate in Plant Biosecurity (GradCertPlantBiosec) .....	333
<b>Engineering</b> .....	307	<b>Policy Studies</b> .....	334
Graduate Diploma in Engineering (GradDipEng).....	307	Graduate Certificate in Health Administration, Policy and Leadership (GCHAPL) .....	334
Master of Engineering (ME) .....	307	<b>Psychology</b> .....	334
<b>Environmental Assessment and Management</b> .....	308	Graduate Diploma in Consultancy Psychology (GradDipConsultPsych) .....	334
Graduate Certificate in Environmental Assessment and Management (GradCertEnvAsstMan).....	308	Graduate Diploma in Psychology (GradDipPsych).....	335
<b>Environmental Management</b> .....	308	Master of Applied Psychology (Clinical Psychology) (MAppPsych).....	335
Graduate Certificate in Protected Area Administration (GradCertPAAAdmin) .....	308	Master of Applied Psychology (Organisational Psychology) (MAppPsych) .....	337
Master of Protected Area Management (MPAMan) .....	309	Master of Applied Psychology (Professional) (MAppPsych(Professional)) .....	338
<b>Environmental Science</b> .....	310	Master of Applied Psychology + Doctor of Philosophy (MAppPsych+PhD).....	339
Graduate Certificate in Environmental Science (GradCertEnvSc) ....	310	Doctor of Psychology (Clinical Psychology) (DPsych).....	341
Graduate Diploma in Environmental Science (GradDipEnv).....	310	Doctor of Psychology (Organisational Psychology) (DPsych).....	342
Master of Environmental Science (MEnvSc).....	311	<b>Public Policy and Management</b> .....	343
<b>Exercise Physiology</b> .....	312	Master of Public Policy and Management (MPPM).....	343
Graduate Diploma in Clinical Exercise Physiology (GradDipClinExPhys) .....	312	<b>Religion</b> .....	344
<b>Extractive Metallurgy</b> .....	312	Master of Chaplaincy (MChap).....	345
Graduate Diploma in Extractive Metallurgy (GradDipExtMet) .....	312	<b>Research Degrees - General</b> .....	345
<b>Food Security</b> .....	313	Master of Philosophy (MPhil) .....	345
Master of Food Security (MFoodSec).....	313	Research Masters (with Training) .....	346
<b>Forensic Science</b> .....	313	Doctor of Philosophy (PhD).....	347
Graduate Certificate in Forensic Science (Professional Practice) (GradCertForSc(ProfessionalPractice)) .....	313	<b>Safety Science</b> .....	348
Master of Forensic Science (Professional Practice) (MForSc(ProfessionalPractice)) .....	314	Graduate Diploma in Safety Science .....	348
<b>Games and Apps Production</b> .....	314	<b>Sustainability</b> .....	348
Graduate Diploma in Games and Apps Production (GradDipGamesAppsProd).....	314	Master of Sustainable Development (MSustDev) .....	349
<b>Health</b> .....	315	<b>Tertiary and Adult Education</b> .....	350
Graduate Certificate in Health Care Management (GradCertHCM).....	315	Graduate Certificate in Tertiary and Adult Education (GradCertTerAdEd).....	350
Master of Health Care Management (MHCM) .....	315	Graduate Diploma in Education (Tertiary and Workplace) (GradDipEd) .....	350
<b>Health Administration Policy and Leadership</b> .....	316	<b>Theology</b> .....	351
Master of Health Administration, Policy and Leadership (MHAPL) .....	316	Graduate Certificate in Theology (GradCertTheol).....	351
<b>Health Communication</b> .....	318	Graduate Diploma in Chaplaincy (GradDipChap).....	351
Graduate Diploma in Health Communication (GradDipHthComm) .....	318	Graduate Diploma in Theology (GradDipTheol) .....	352
<b>Human Resources Management</b> .....	319	Master of Divinity (MDiv) .....	352
Graduate Certificate in Human Resources Management (GradCertHRM) .....	319	<b>Veterinary Science</b> .....	353
Graduate Diploma in Human Resources Management (GradDipHRM).....	319	Master of Veterinary Clinical Studies (MVetClinStud).....	354
Master of Human Resources Management (MHRM).....	320	Master of Veterinary Studies (Conservation Medicine) (MVS).....	354
<b>Human Resources and Safety</b> .....	321	Master of Veterinary Studies (Small Animal Practice) (MVS) .....	355
Graduate Certificate in Human Resources and Safety (GradCertHRS) .....	321	Master of Veterinary Studies (Veterinary Surveillance) (MVS).....	356
<b>Information Technology</b> .....	322	Doctor of Veterinary Medical Science (DVetMedSc) .....	356
Graduate Certificate in Information Technology (GradCertIT) .....	322	<b>Water Treatment and Desalination</b> .....	357
Graduate Diploma in Information Technology Management (GradDipITMan) .....	322	Graduate Diploma in Water Treatment and Desalination (GradDipWtTrmt) .....	357
Graduate Diploma in Internetworking and Security (GradDipIntwkSecur) .....	323	Master of Water Treatment and Desalination (MWatTrmt).....	358
Master of Information Technology (MIT).....	324	<b>Web Communication</b> .....	359
Doctor of Information Technology (DIT).....	327	Graduate Diploma in Web Communication (GradDipWebComm).....	359
<b>International Affairs</b> .....	328	<b>Wildlife Health and Conservation</b> .....	360
Master of International Affairs and Security (MIAS) .....	328	Master of Wildlife Health and Conservation (MWildlifeHth).....	360
<b>Law</b> .....	329	<b>Units</b> .....	361
Graduate Certificate in Legal Practice (GradCertLP) .....	329	<b>Units</b> .....	361
Master of Laws by Research (LLM(Res)) .....	330	<b>Units: List</b> .....	362
<b>Leadership, Strategy and Innovation</b> .....	330	<b>Units: Details</b> .....	404
Executive Master in Leadership, Strategy and Innovation (EMLeadershipStratInnov).....	330		
<b>Marketing</b> .....	331		
Graduate Certificate in International Marketing (GradCertIM).....	331		
<b>Media Production</b> .....	331		
Graduate Certificate in Media Production (GradCertMedProd).....	332		
Graduate Diploma in Media Production (GradDipMedProd) .....	332		
<b>Migration Law</b> .....	332		

# University Preparation (Access and Enabling)

## **Cancellation of Courses, Majors, Minors and Units**

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Group	Course	Offerings
<b>Kulbardi Aboriginal Centre</b>	Ngoolark: BA, BEd, BBus and BNurs Extension Program	• Murdoch campus (internal)
		• Murdoch campus (external)
<b>University Preparation</b>	FlexiTrack	• Murdoch campus (external)
	K-Track	• Murdoch campus (internal)
		• Murdoch campus (external)
	OnTrack	• Murdoch campus (internal)
• Mandurah campus (internal)		
• Rockingham campus (internal)		
<b>Veterinary Science</b>	OnTrack Sprint Waardong	• Murdoch campus (internal)
		• Murdoch campus (internal)

## KULBARDI ABORIGINAL CENTRE

### NGOOLARK: BA, BED, BBUS AND BNURS EXTENSION PROGRAM

No Specific School

Course Codes: N1096

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Kulbardi Aboriginal Centre's Ngoolark program provides tailored learning experiences to support Aboriginal and Torres Strait Islander students in their transition into a Bachelor of Arts (BA), Bachelor of Education (BE), Bachelor of Business (BBus) or Bachelor of Nursing (BNurs). Assessments and learning experiences contained within the Ngoolark program are designed to complement your assessment and curriculum within your first year core units. This allows you to undertake your first year of studies in a more gradual and supported way.

#### Admission Requirements (Onshore):

This special entry program for Aboriginal and Torres Strait Islander people is based on student results during the K-Track program, and/or a diagnostic test for students who did not undertake the K-Track program.

English competence.

#### Course Structure

KAC101 Ngoolark Special Project 1 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC201 Ngoolark Special Project 2 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC006 Foundations of Arts 1 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC008 Foundations of Arts 2 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC009 Foundations of Arts 3 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC010 Foundations of Arts 4 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC011 Foundations in Education 1 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC012 Foundations in Education 2 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC013 Foundations in Education 3 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC014 Foundations in Education 4 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC015 Foundations in Business/Commerce 1 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC016 Foundations in Business/Commerce 2 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC017 Foundations in Business/Commerce 3 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC018 Foundations in Business/Commerce 4 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC019 Foundations in Nursing 1 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC020 Foundations in Nursing 2 - 0 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC021 Foundations in Nursing 3 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC022 Foundations in Nursing 4 - 0 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

## UNIVERSITY PREPARATION

### FLEXITRACK

No Specific School

Course Codes: N1095

Duration: 10 weeks intensive, 20 weeks full-time, 40 weeks part-time

#### Availability:

- Murdoch campus (external)

FlexiTrack is a university preparation course that qualifies you to apply directly for any undergraduate degree at Murdoch University that has an indicative ATAR of 70 or less. FlexiTrack is a series of four modules designed to develop skills that are relevant to any degree program. Each module is made up of a series of engaging topics, interactive activities and assignments which introduce students to university culture and build on academic skills such as reading and note-making, referencing, essay writing, numeracy and report writing.

#### Admission Requirements (Onshore):

FlexiTrack is suitable for people from the following equity groups: people who can demonstrate educational disruption due to family, financial or social issues; Aboriginal and Torres Strait Islander people; people with disabilities or medical conditions; people living in rural or remote regions; or women wishing to study in one of the University's Engineering courses. The course also caters for people who have arrived in Australia under a Humanitarian or Refugee program.

In addition, the course offers an opportunity for Year 12 non-TEE students who have experienced disruption to their final year studies due to disability, medical condition or other significant family or social issues. Students in this category will require the support of their school teaching staff in order to apply.

FlexiTrack provides an alternative entry pathway into Murdoch University for International students who have met the English Language requirements but have missed out on the academic entry requirements by a small margin.

English competence.

#### Course Structure

EQU080 FlexiTrack - 0 points  
MURDOCH: H1-external, SPA1-external, SS3-external, SUM2-external, WU1-external, Y3-external

### K-TRACK

No Specific School

Course Codes: N1077

Duration: 1 semester full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

K-Track assists people to gain entry to undergraduate study with two entry points depending upon the performance of the student. The course is designed to not only help Indigenous people develop



the skills necessary for success at university, but also to have them realise how empowering being a successful student can be. Following the successful completion of K-Track, students are then either directly enrolled into the undergraduate degree of their choice (with some exceptions) or are transitioned into further studies in the OnTrack program offered by the University.

#### **Admission Requirements (Onshore):**

This course is available to Aboriginal and Torres Strait Islander people only.

English competence.

#### **Course Structure**

KAC001 Big Ideas - 0 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC002 Your Writing Tool-kit - 0 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC003 Understanding Your World - 0 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC004 iHealth - 0 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAC005 Kulbardi Summer & Winter School - 0 points

MURDOCH: SS2-internal, SS2-external, W-internal, W-external

---

### **ONTRACK**

No Specific School

Course Codes: N1069

Duration: 1 semester full-time

#### **Availability:**

- Murdoch campus (internal)
- Mandurah campus (internal)
- Rockingham campus (internal)

OnTrack is a 14-week university preparation course that assists you to gain entry into a wide range of undergraduate degrees at Murdoch University.

OnTrack will provide you with:

- \* A supportive, adult learning environment in which to develop effective study habits and learning strategies
- \* The tuition you need to develop your academic skills, knowledge and understandings to an undergraduate level
- \* Assistance to explore an undergraduate degree program that matches your aspirations.
- \* A network of peer and academic support at Murdoch University

#### **Admission Requirements (Onshore):**

OnTrack is suitable for people from the following equity groups: people who can demonstrate educational disruption due to family, financial or social issues; Aboriginal and Torres Strait Islander people; people with disabilities or medical conditions; people living in rural or remote regions; and women wishing to study in one of the University's Engineering courses. The course also caters for people who have arrived in Australia under a Humanitarian or Refugee program.

In addition, the course offers an opportunity for Year 12 non-TEE students who have experienced disruption to their final year studies due to disability, medical condition or other significant family or social issues. Students in this category will require the support of their school teaching staff in order to apply.

English competence.

#### **Special Requirements:**

Please note that OnTrack is a high demand course with limited

places. If by the end of the first week of semester you

- \* have not attended class, or made reasonable efforts to contact the OnTrack Office with a request to keep your enrolment open,
  - \* and have not responded to emails and phone calls
- we reserve the right to cancel your offer to enable someone else the opportunity to take up the place.

#### **Course Structure**

EQU060 OnTrack - 0 points

MURDOCH: S1-internal, S2-internal

MANDURAH: S1-internal, S2-internal

ROCKINGHAM: S1-internal, S2-internal

---

### **ONTRACK SPRINT**

No Specific School

Course Codes: N1080

Duration: 4 weeks intensive

#### **Availability:**

- Murdoch campus (internal)

OnTrack Sprint provides an entry pathway into Murdoch University for students who have completed their WACE certificate within the previous 18 months, generated an ATAR between 60-69.5 and are Australian citizens, permanent residents or humanitarian visa holders. Through this intensive, four-week preparatory program students will learn to think critically and complete research at a University level. By participating in tutorials and completing assignments you will open your mind to new ways of thinking and develop skills as independent learners.

#### **Admission Requirements (Onshore):**

OnTrack Sprint is an Enabling Program which:

- \* is offered for the purpose of enabling a non-overseas student to undertake an award program in a student place which is funded either partially or fully by the Commonwealth at the institution or at another institution;
- \* meets Commonwealth guidelines concerning the inclusion in the annual data collection of student load for Enabling Programs;
- \* is specifically designed to meet the needs of students who have completed a WACE certificate within the previous 18 months and have generated an ATAR that is close to, but does not quite meet, the eligibility criteria for direct entry. Specifically they will have generated either an overall ATAR of 60-69.5 or an overall ATAR of 70+ but failed to meet Murdoch University's English competence criteria.

#### **Course Structure**

EQU070 OnTrack Sprint - 0 points

MURDOCH: SB7-internal

---

### **VETERINARY SCIENCE**

#### **WAARDONG**

School of Veterinary and Life Sciences

Course Codes: N1022

#### **Availability:**

- Murdoch campus (internal)

Waardong is a special entry and enabling program in the School of Veterinary and Life Sciences for Aboriginal and Torres Strait Islander people who want to become veterinarians. In order to maximise student success, Waardong provides academic, social and cultural support for Aboriginal and Torres Strait Islander students enrolled

in Veterinary Science or, as approved by the relevant Academic Chair, other participating Science courses.

Waardong teaches Orientation Chemistry for students without a background in chemistry, and supplementary enabling units for students throughout their veterinary or other science studies.

Students interested in applying for entry should contact the Special Education Officer in the School of Veterinary and Life Sciences. The deadline for submission of applications is 30 September each year; Testing and Selection week is in early December.

#### **Admission Requirements (Onshore):**

This special entry program for Aboriginal and Torres Strait Islander people is based on student results during the one-week residential Testing and Selection process. Evaluation of student readiness for study involves practical and written exercises throughout the week. Alternate entry may be permitted through K-Track, with approval from the relevant Academic Chair.

English competence.

#### **Additional Academic Progress Requirements:**

Progress of Waardong students will be assessed by the Board of Examiners on the recommendation of the Special Education Officer and the Chair of the Waardong Committee.

### **Program Structure**

Students entering Waardong are placed in either one of Non-Chemistry Transition or Transition with Chemistry.

#### **Non-Chemistry Transition**

Students who do not have a background in chemistry are placed in Non-Chemistry Transition, which provides an intensive Orientation Chemistry and supplementary tutoring in all other units. Students take the first year over two academic years.

#### **Transition with Chemistry**

Students who have entered their Science major with Year 12 Chemistry are placed in Transition with Chemistry, which provides for supplementary tutoring in all units. These students enrol in the first year full-time.

#### **Core Units**

Students enrol in the following units throughout their veterinary studies:

EQU011 Orientation Chemistry 1 - 0 points  
MURDOCH: S1-internal

EQU012 Orientation Chemistry 2 - 0 points  
MURDOCH: S2-internal

EQU021 Transition to Biological Science Studies 1 - 0 points  
MURDOCH: S1-internal, S2-internal

EQU022 Transition to Biological Science Studies 2 - 0 points  
MURDOCH: S1-internal, S2-internal

EQU023 Transition to Biological Science Studies 3 - 0 points  
MURDOCH: S1-internal, S2-internal

EQU024 Transition to Biological Science Studies 4 - 0 points  
MURDOCH: S2-internal

EQU031 Extension to Veterinary Biology 1 - 0 points  
MURDOCH: S1-internal

EQU032 Extension to Veterinary Biology 2 - 0 points  
MURDOCH: S2-internal

EQU033 Extension to Veterinary Biology 3 - 0 points  
MURDOCH: S1-internal

EQU034 Extension to Veterinary Biology 4 - 0 points  
MURDOCH: S2-internal

EQU035 Extension to Veterinary Biology 5 - 0 points

EQU036 Introduction to Clinical Studies - 0 points

EQU041 Integrated Clinical Studies 1 - 0 points  
MURDOCH: S1-internal

EQU042 Integrated Clinical Studies 2 - 0 points  
MURDOCH: S2-internal

EQU043 Integrated Clinical Studies 3 - 0 points  
MURDOCH: S1-internal

EQU044 Integrated Clinical Studies 4 - 0 points  
MURDOCH: S2-internal

### **Additional Academic Progress Requirements**

Progress of Waardong students will be assessed by the Board of Examiners on the recommendation of the Special Education Officer and the Chair of the Waardong Committee.

# Bachelor and Honours Degrees

4

## Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Group	Course	Offerings
<b>Accounting</b>	Accounting (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Accounting Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Animal Health</b>	Animal Health (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Animal Health Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Animal Science</b>	Animal Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Animal Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Asian Studies</b>	Asian Studies (BA)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> </ul>
	Indonesian (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Japanese (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Asian Studies Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Australian Indigenous Studies</b>	Australian Indigenous Studies (BA)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> </ul>
	Australian Indigenous Studies Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Banking</b>	Banking (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Banking Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Biological Sciences</b>	Biological Sciences (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Biological Sciences Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Biomedical Science</b>	Biomedical Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Biomedical Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Biotechnology</b>	Biotechnology Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Business Information Systems</b>	Business Information Systems (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Business Information Systems (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students)</li> <li>• Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)</li> <li>• Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)</li> </ul>
	Business Information Systems Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>

Group	Course	Offerings
<b>Business Law</b>	Business Law (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Business Law Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Chemistry</b>	Chemistry (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Chemistry Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Chiropractic</b>	Chiropractic Science + Clinical Chiropractic (BSc+BCLinChiro)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Chiropractic Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Communication and Media Studies</b>	Communication and Media Studies (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Communication and Media Studies Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Community Development</b>	Community Development (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Community Development Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Computer Science</b>	Computer Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Computer Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students)</li> <li>• Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)</li> <li>• Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)</li> </ul>
	Computer Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Conservation and Wildlife Biology</b>	Conservation and Wildlife Biology (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Conservation and Wildlife Biology Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Criminology</b>	Criminology (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Criminology Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Crop and Pasture Science</b>	Crop and Pasture Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Crop and Pasture Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Cyber Forensics, Information Security and Management</b>	Cyber Forensics and Information Security (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Cyber Forensics and Information Security Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>

Group	Course	Offerings
<b>Economics</b>	Economics (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Economics Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Education</b>	Early Childhood and Primary Teaching (BEEd)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external) (except for one two week school experience (EDN2104), and a one week intensive (EDN248 and EDN236).)</li> </ul>
	Primary, 1-10 Health and Physical Education (BEEd)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Primary Teaching (BEEd)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external) (except for one two-week school experience (EDN2104), and a one-week intensive (EDN248 and EDN236).)</li> </ul>
	Secondary Teaching (Arts Combined Drama) (BEEd+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• This course is not available to International Students on a Student Visa for mid year entry.</li> </ul>
	Secondary Teaching (Arts Combined English) (BEEd+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Arts Combined History) (BEEd+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Arts Combined Languages other than English (Indonesian)) (BEEd+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Arts Combined Languages other than English (Japanese)) (BEEd+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Combined Science Degrees) (BEEd+BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Science Combined Mathematics) (BEEd+BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Secondary Teaching (Science Combined Sport and Health Science) (BEEd+BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (some attendance is required in individual units)</li> </ul>
	<b>Engineering</b>	Electrical Power Engineering Honours (BE(Hons))
Environmental Engineering Honours (BE(Hons))		<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>

Group	Course	Offerings
	Industrial Computer Systems Engineering Honours (BE(Hons))	• Murdoch campus (internal)
	Instrumentation and Control Engineering Honours (BE(Hons))	• Murdoch campus (internal)
	Renewable Energy Engineering Honours (BE(Hons))	• Murdoch campus (internal)
<b>Engineering Technology</b>	Engineering Technology (BSc)	• Murdoch campus (internal)
<b>English and Creative Writing</b>	English and Creative Writing (BA)	• Murdoch campus (internal) • Murdoch campus (external)
	English and Creative Writing Honours (BA(Hons))	• Murdoch campus (internal)
<b>Environmental Management</b>	Environmental Management and Sustainability (BSc)	• Murdoch campus (internal) • Murdoch campus (external)
	Environmental Management and Sustainability Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Environmental Science</b>	Environmental Science (BSc)	• Murdoch campus (internal) • Murdoch campus (external)
	Environmental Science Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Exercise Physiology</b>	Clinical Exercise Physiology (BSc+GradDipClinExPhys)	• Murdoch campus (internal) • This course is not available to International students studying in Australia.
	Exercise Physiology Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Extractive Metallurgy</b>	Chemical and Metallurgical Engineering Honours (BE(Hons))	• Murdoch campus (internal) • Some units only: Murdoch campus (external)
<b>Finance</b>	Finance (BBus)	• Murdoch campus (internal) • Murdoch campus (external) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
	Finance Honours (BBus(Hons))	• Murdoch campus (internal)
<b>Forensic Biology</b>	Forensic Biology and Toxicology (BSc)	• Murdoch campus (internal) • Some units only: Murdoch campus (external)
	Forensic Biology and Toxicology Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Games Art and Design</b>	Games Art and Design (BA)	• Murdoch campus (internal)
	Games Art and Design Honours (BA(Hons))	• Murdoch campus (internal)
<b>Games Software Design and Production</b>	Games Software Design and Production (BSc)	• Murdoch campus (internal) • Murdoch campus (external)
	Games Software Design and Production Honours (BSc(Hons))	• Murdoch campus (internal)
<b>Games Technology</b>	Games Technology (BSc)	• Murdoch campus (internal) • Murdoch campus (external)
	Games Technology Honours (BSc(Hons))	• Murdoch campus (internal)
<b>Global Politics and Policy</b>	Global Politics and Policy (BA)	• Murdoch campus (internal) • Murdoch campus (external)
<b>Graphic Design</b>	Graphic Design Honours (BA(Hons))	• Murdoch campus (internal)
<b>History</b>	History (BA)	• Murdoch campus (internal) • Murdoch campus (external)
	History Honours (BA(Hons))	• Murdoch campus (internal)
<b>Hospitality and Tourism Management</b>	Hospitality and Tourism Management (BBus)	• Murdoch campus (internal) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English) • Some units only: Murdoch campus (external) (all but one unit)

Group	Course	Offerings
<b>Human Resources Management</b>	Human Resources Management (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
<b>Interactive Digital Design</b>	Graphic Design (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>International Aid and Development</b>	International Aid and Development (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>International Business</b>	International Business (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
<b>Internet Software Development</b>	Mobile and Web Application Development (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Mobile and Web Application Development Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Internetworking and Network Security</b>	Internetworking and Network Security (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Internetworking and Network Security Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Journalism</b>	Journalism (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Journalism Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Laboratory Medicine</b>	Laboratory Medicine (BSc/BLabMed)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Laboratory Science</b>	Clinical Laboratory Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Law</b>	Law (LLB/LLB(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)</li> <li>• Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)</li> </ul>
	Law + Arts [Combined] (LLB+BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)</li> <li>• Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)</li> </ul>
	Law + Business [Combined] (LLB+BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)</li> <li>• Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)</li> </ul>
	Law + Science [Combined] (LLB+BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)</li> <li>• Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)</li> </ul>

Group	Course	Offerings
	Law - Graduate Entry (LLB)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (some Specified Electives only)</li> <li>• Some units only: Geneva (Geneva, Switzerland) (internal) (some Specified Electives only)</li> </ul>
	Law Honours (LLB(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Law, Business and Society</b>	Law, Business and Society (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Law, Business and Society Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Management</b>	Management (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Management Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Marine Biology</b>	Marine Biology (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Marine Science</b>	Marine Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Marine Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Marketing</b>	Marketing (BBus)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
	Marketing Honours (BBus(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Mathematics and Statistics</b>	Mathematics and Statistics (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Mathematics and Statistics Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Mineral Science</b>	Mineral Science (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Mineral Science Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Miscellaneous</b>	Double Degree Five Year	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Double Degree Four Year	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Molecular Biology</b>	Genetics and Molecular Biology (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external)</li> </ul>
	Molecular Biology Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Nursing</b>	Nursing (BNurs)	<ul style="list-style-type: none"> <li>• Mandurah campus (internal) (not available to new admissions)</li> <li>• Some units only: Murdoch campus (internal) (not available to new admissions)</li> </ul>
	Nursing (BNurs)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Mandurah campus (internal)</li> </ul>
	Nursing Honours (BNurs(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Mandurah campus (internal)</li> </ul>
<b>Philosophy</b>	Philosophy (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Philosophy Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Photography</b>	Photography (BA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Photography Honours (BA(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Physics and Nanotechnology</b>	Physics and Nanotechnology (BSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Physics and Nanotechnology Honours (BSc(Hons))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>



Group	Course	Offerings
<b>Politics and International Studies</b>	Global Politics and Policy Honours (BA(Hons))	• Murdoch campus (internal)
<b>Psychology</b>	Psychology (BA)	• Murdoch campus (internal)
	Psychology (BSc)	• Murdoch campus (internal)
	Psychology (Kaplan, Singapore) (BA)	• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
	Psychology Honours (BA(Hons))	• Murdoch campus (internal)
	Psychology Honours (BSc(Hons))	• Murdoch campus (internal)
<b>Public Relations</b>	Public Relations (BA)	• Murdoch campus (internal) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
	Public Relations Honours (BA(Hons))	• Murdoch campus (internal)
<b>Radio</b>	Radio (BA)	• Murdoch campus (internal)
	Radio Honours (BA(Hons))	• Murdoch campus (internal)
<b>Religion</b>	Religion (BA)	• Not currently available to new admissions
	Religion Honours (BA(Hons))	• Murdoch campus (internal)
<b>Screen Production</b>	Screen Production (BA)	• Murdoch campus (internal) • Some units only: Murdoch campus (external)
	Screen Production Honours (BA(Hons))	• Murdoch campus (internal)
<b>Security, Terrorism and Counterterrorism</b>	Security, Terrorism and Counterterrorism Studies (BA)	• Murdoch campus (internal) • Murdoch campus (external)
<b>Sociology</b>	Sociology (BA)	• Murdoch campus (internal) • Murdoch campus (external)
	Sociology Honours (BA(Hons))	• Murdoch campus (internal)
<b>Sound</b>	Sound (BA)	• Murdoch campus (internal)
	Sound Honours (BA(Hons))	• Murdoch campus (internal)
<b>Sports Science</b>	Movement Science (BSc)	• Murdoch campus (internal)
	Sport and Health Science (BSc)	• Murdoch campus (internal)
	Movement Science Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
	Sport and Health Science Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Sustainability</b>	Sustainable Development (BA)	• Murdoch campus (internal) • Murdoch campus (external)
	Sustainable Development Honours (BA(Hons))	• Murdoch campus (internal)
<b>Theatre and Drama</b>	Theatre and Drama (BA)	• Murdoch campus (internal) • Some units only: Murdoch campus (external)
	Theatre and Drama Honours (BA(Hons))	• Murdoch campus (internal)
<b>Tourism and Events</b>	Tourism and Events (BA)	• Murdoch campus (internal) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English) • Some units only: Murdoch campus (external) (all but one unit)
	Tourism and Events Honours (BA(Hons))	• Murdoch campus (internal)
	<b>Veterinary Science</b>	Veterinary Science (BSc+DVM)
	Veterinary Biology Honours (BSc(Hons))	• Murdoch campus (internal) • Murdoch campus (external)
<b>Web Communication</b>	Web Communication (BA)	• Murdoch campus (internal) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) • Some units only: Murdoch campus (external)
	Web Communication Honours (BA(Hons))	• Murdoch campus (internal)

## ACCOUNTING

### ACCOUNTING (BBUS)

School of Business and Governance

Bachelor of Business (BBus) in Accounting

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### Parent Major:

Bachelor of Business

Accounting is an integral part of the management process in any business, public enterprise or not for profit entities. It acts as an evaluation and control aid when looking at the effectiveness and efficiency of the operations of an enterprise as well as employee performance. It provides information to assist users in making decisions for a variety of purposes, including the acquisition or sale of shares, lending of money, and provision of goods on credit.

In addition, Accounting helps managers, owners and investors to look after the assets and investments of the organisation. Capital investment and strategic decisions also use data produced by the accounting process.

A fourth year of study is available in the form of an honours year.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

#### Admission Requirements (Offshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

The Accounting major is usually chosen by students interested in a career as a professionally qualified accountant. Graduates of this course can gain employment with professional accounting firms (working with clients in areas such as audit, taxation, and business services), in government, in other private sector firms, and in not-for-profit organisations.

#### Professional Accreditation:

CPA Australia, Institute of Chartered Accountants in Australia (ICAA) and Institute of Public Accountants (IPA).

#### Professional Recognition:

Students can satisfy the entry requirements (when the right combination of core and elective units are selected) for admission to membership of the professional accounting bodies. These include Associate membership of CPA Australia, and direct entry into the Institute of Chartered Accountants in Australia CA Programme and Associate membership of the Institute of Public Accountants (IPA).

Students who have been granted Advanced Standing must discuss their enrolment and selection of units with the Academic Chair as their Advanced Standing may affect their ability to satisfy the admission requirements to the professional accounting bodies on completion of their degree.

#### Recommended Double Majors:

Banking; Business Law; Economics; Finance; Hospitality and Tourism Management; Human Resources Management; International Business; Management; Marketing

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 15 credit points

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS171 Foundations of Economics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS170 Foundations of Accounting - 3 points  
MURDOCH: S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

##### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### Core Units - 9 credit points

BUS285 Technology and Accounting Processes - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS286 Corporate Finance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS287 Management Accounting - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TJA-internal, TSA-internal

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

BBS300 Empirical Research Methods for Business - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
 KAPLAN-SGP: TSA-internal

#### Core Units - 9 credit points

BSL305 Company Law - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TMA-internal

BUS356 Contemporary Financial Accounting - 3 points  
 MURDOCH: S1-internal, S1-external  
 KAPLAN-SGP: TJA-internal, TSA-internal

BUS304 Accounting Theory and Accountability - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TMA-internal

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Recommended:

BUS358 Professional Internship in Business - 9 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
 <span data-type="offering" data-unit="BUS267">MURDOCH: S1-internal (quota of 50 places)</span>

#### Additional Professional Accreditation Requirements

In order to qualify for admission to membership of the professional accounting bodies (CPA Australia, ICAA and the IPA) students must complete the following two units which can be taken in lieu of two General Elective units.

BUS303 Taxation - 3 points  
 MURDOCH: S1-internal, S1-external  
 KAPLAN-SGP: TJA-internal, TSA-internal

BUS306 Auditing - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TMA-internal

---

## ACCOUNTING HONOURS (BBUS(HONS))

School of Business and Governance

Bachelor of Business Honours (BBus(Hons)) in Accounting

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

#### Admission Requirements (Offshore):

NA

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

#### Core Units - 9 credit points

MBS516 Advanced Honours Topic A - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
 MURDOCH: S1-internal, S2-internal

#### Specified Electives - 3 credit points

Select from the following:

MBS619 Qualitative Organisational Research - 3 points

MBS659 Quantitative Research for Business - 3 points  
 MURDOCH: S1-internal, S1-external

#### Thesis - 12 credit points

MBS519 Honours Thesis - 12 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

---

## ANIMAL HEALTH

### ANIMAL HEALTH (BSC)

School of Veterinary and Life Sciences

Bachelor of Science (BSc) in Animal Health

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

#### Parent Major:

Bachelor of Science (Non-IT Majors)

The Animal Health BSc equips students with knowledge of the principles of animal health and disease. Students will develop a scientific understanding relevant to a number of disciplines within the field of animal health with a strong emphasis on application of

theory to the health and well-being of domestic animals and wildlife. Students will develop skills required to work in teams to address problems and communicate outcomes related to a number of disciplines within the area of animal health.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken WACE Chemistry 3A/3B and Mathematics 2C/2D.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Employment Prospects:**

Graduates in Animal Health are strongly placed to pursue careers in a wide range of fields, including agriculture, companion animal industries and wildlife management. Employment opportunities include private industry, public sector (state and federal government), non-government organisations and research and development institutions. Other career options include research or further study in specialised fields (for example, veterinary science).

#### **Professional Recognition:**

Recognised by Ag Institute Australia. Ag Institute Australia is the peak body representing the interests of Agricultural and Natural Resource Management professionals. Students graduating with Major in Animal Health are eligible for professional membership.

#### **Recommended Double Majors:**

Animal Science

#### **Excluded Majors:**

Veterinary Science

#### **Main Research Areas:**

Applied biochemistry, meat science, animal nutrition, anatomy, physiology, embryology, histology, pathology, microbiology, virology, immunology, parasitology, biosecurity, epidemiology and public health.

#### **Further Study:**

The BSc with double major in Animal Science and Animal Health is a recommended pathway for students intending to apply for entry into veterinary science.

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

ANS102 Introduction to the Animal Body - 3 points  
MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Core Units - 12 credit points**

VET272 Comparative Mammalian Biochemistry - 3 points  
MURDOCH: S1-internal

VET278 Principles of Infectious Disease II - Veterinary Parasitology - 3 points  
MURDOCH: S2-internal

ANS221 Animal Structure and Function - 3 points  
MURDOCH: S2-internal

VET211 Principles of Infectious Disease I - Veterinary

Microbiology - 3 points  
MURDOCH: S2-internal

### **General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Core Units - 6 credit points**

ANS313 Pathology and Diseases of Production Animals - 3 points  
MURDOCH: S1-internal

VET392 One Health - 3 points  
MURDOCH: S2-internal

### **General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Recommended General Electives**

ANS301 New Colombo Plan Agricultural China Study Tour - 3 points  
MURDOCH: S2N-internal

### **Research Skills Unit List**

#### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3

points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points

<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has

reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-externalMAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-externalICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-externalMAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-externalMAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-externalICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-externalICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external**Engineering Technology Major**MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-externalBEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internalMAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-externalBEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internalBSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-externalMAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-externalMAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-externalENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal**Mineral Science Major**ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-externalMAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-externalBEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internalENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internalBEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internalMAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-externalMAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-externalENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal**Marine Biology Major**BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-externalENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-externalBIO246 Microbiology - 3 points  
MURDOCH: S1-internalBMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internalMAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-externalMAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-externalBIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

**ANIMAL HEALTH HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Animal Health*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Employment Prospects:**

The honours degree represents excellent preparation for a career in animal production and the animal research industries. Graduates will find employment in a wide range of agricultural industries from government departments of agriculture, rural supply and stock companies, as farm advisors and consultants, in research funded by government and industry agencies, in biosecurity and quarantine, and in schools, colleges and universities.

**Main Research Areas:**

A wide range of disciplines are available for study in the context of animal production science, including anatomy, aquaculture, bacteriology, biochemistry, biosecurity, embryology, epidemiology, food quality, histology, immunology, nutrition, parasitology, pathology, pharmacology, physiology, toxicology, and virology.

**Further Study:**

Successful completion of the Honours course is required for admission to higher research degrees (i.e. Masters or PhD degrees).

**Course Structure - 24 credit points**



**Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 21 credit points**

VLS515 Honours Thesis in Animal Health - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
Y-internal, Y-external

**ANIMAL SCIENCE****ANIMAL SCIENCE (BSC)**

School of Veterinary and Life Sciences

Bachelor of Science (BSc) in Animal Science

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

The aim of this degree is to train an adaptable animal scientist who will find employment in a wide range of agricultural industries. The degree will be excellent preparation for a career in animal agriculture and the animal research industries.

In the first year, students will be introduced to the major animal production industries and also study chemistry, introductory physiology and anatomy, statistics and cell biology,

During second and third year, students will undertake further study in animal production systems (including scientific writing and communication), biochemistry, physiology and anatomy, statistics, pathology, nutrition, toxicology and genetics.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have studied WACE Chemistry 3A/3B and at least Mathematics 2A/2B.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Internet access; on-campus attendance for laboratory sessions.

**Employment Prospects:**

Gradlink surveys over the past five years indicate at least 75 per cent full-time employment. About 20 per cent of graduates go on to further full-time study. Agricultural industries employ animal science graduates in a variety of roles such as consultants, technical advisors, and government research officers.

**Professional Recognition:**

Australian Institute of Agricultural Science and Technology (AIAST).

**Recommended Double Majors:**

Animal Health; Crop and Pasture Science

**Main Research Areas:**

Animal Production, Agricultural and Veterinary Biotechnology.

**Major Prerequisites****Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

ANS101 Introduction to Livestock Science and Genetics - 3 points  
MURDOCH: S2-internal, UA6-internal (closed)

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

VET272 Comparative Mammalian Biochemistry - 3 points  
MURDOCH: S1-internal

ANS230 Animal Production Systems II - 3 points  
MURDOCH: S1-internal

ANS221 Animal Structure and Function - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

VET380 Veterinary Nutrition and Animal Toxicology - 3 points  
MURDOCH: S1-internal

ANS333 Animal Production Systems III - 3 points  
MURDOCH: S1-internal

ANS337 Animal Industry Experience - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Recommended General Electives**

ANS301 New Colombo Plan Agricultural China Study Tour - 3 points  
MURDOCH: S2N-internal

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points

MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points

MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points

MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points

MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points

MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points

MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points

MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points

MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points

MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points

MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points

MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points

MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points

MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points

MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points

MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points

MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points

MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points

MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

---

## **ANIMAL SCIENCE HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Animal Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Special Requirements:**

Internet access, on-campus attendance for laboratory and workshop sessions.

**Employment Prospects:**

The honours degree represents excellent preparation for a career in animal production and the animal research industries. Graduates will find employment in a wide range of agricultural industries from government departments of agriculture, rural supply and stock companies, as farm advisors and consultants, in research funded by government and industry agencies, in biosecurity and quarantine, and in schools, colleges and universities.

**Professional Recognition:**

Australian Institute of Agricultural Science and Technology (IAIST)

**Main Research Areas:**

A wide range of disciplines are available for study in the context of animal production science, including anatomy, aquaculture, bacteriology, biochemistry, biosecurity, embryology, epidemiology, food quality, histology, immunology, nutrition, parasitology, pathology, pharmacology, physiology, toxicology, and virology.

**Course Structure - 24 credit points****Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 21 credit points**

VLS510 Honours Thesis in Animal Science - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
Y-internal, Y-external

**ASIAN STUDIES****ASIAN STUDIES (BA)**

School of Arts

Bachelor of Arts (BA) in Asian Studies

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Not currently available to new admissions

**Parent Major:**

Bachelor of Arts

For political, economic, environmental and cultural reasons, the countries of East and South-East Asia play an increasingly important role in contemporary global change. This three-year degree offers the opportunity to study the media, religions, histories, politics, economics, sociology and anthropology of the Asian region. It is possible to combine an Asian Studies major with a second major or a minor in Indonesian or Japanese language.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

The major is intended to provide the background for careers in teaching, the diplomatic service, law, public service, business, and journalism, which require interdisciplinary perspectives on the Asian cultural, political and economic context.

**Recommended Double Majors:**

Community Development; Community Development (OUA); Global Politics and Policy; History; Indonesian; International Aid and Development; International Aid and Development (OUA); Japanese; Sociology; Sustainable Development (OUA); Theatre and Drama; Tourism and Events

**Recommended Minors:**

Anthropology; Communication; Indonesian; Japanese; Modern History; Philosophy; Sustainable Development; Theatre and Drama; Tourism

**Excluded Minors:**

Asian Studies

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points

**Core Unit - 3 credit points**

AST102 Asian Centuries - 3 points

**General Electives - 15 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points

**Core Unit - 3 credit points**

AST281 Contemporary Asia - 3 points

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points

#### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points

#### **Core Unit - 3 or 6 credit points**

AST312 Anthropology, Society and Culture - 3 points

OR

AST384 Asian Studies Project - 3 points

OR

AST3841 Asian Studies Project - 6 points

#### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

#### **General Electives - 6 or 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

AST350 Society, Culture and Ecology in Asia - 3 points

AST288 Women in Asian Societies - 3 points

JPN207 Love and Sexuality in Japan - 3 points

AST352 Culture and Religion in Asia - 3 points

AST286 People's History of South-East Asia - 3 points

HIS310 Modern Japan - 3 points

IND371 Media, Culture and Politics in Indonesia - 3 points

HIS305 The Vietnam Wars - 3 points

HIS334 Peasants, Rebels and Leviathan: Modern Southeast Asian History - 3 points

Up to two Asian language units at 200 or 300 level may be credited to the Asian Studies major as Specified Electives with approval of the Academic Chair.

## **INDONESIAN (BA)**

School of Arts

Bachelor of Arts (BA) in Indonesian

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Arts

South-East Asia is a dynamic and rapidly industrialising region of tremendous cultural, economic and political importance to Australia. The Indonesian major, which is available for beginners and those with some knowledge of the language, consists of three years of interactive Indonesian language study including speaking, listening, reading, writing and cultural understanding. Students wishing to specialise in Indonesian are encouraged to undertake a semester of study in Indonesia through the national Australian Consortium for 'In-Country' Indonesian Studies (ACICIS).

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

The course is open to beginners as well as those with language competency. Students with language competency will be granted exemption from lower level language units and will be placed at the level appropriate to their level of competency. Such students may be required to take alternative units to replace the lower level language units.

Native speakers of Indonesian or Malay may be excluded from this major. Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system may be excluded from this major, or from the lower level language units, depending on their previous level of exposure to Indonesian/Malay.

#### **Employment Prospects:**

Indonesian language skills are highly valued in particular employment areas, particularly those involving foreign affairs, security, defence, media, international development, and particular sectors of teaching and education. It is possible to gain accreditation as an interpreter and translator through separate application and testing by the NAATI (National Accreditation Authority for Translators and Interpreters). Some employers (e.g. Departments of Defence, Foreign Affairs and Trade) pay additional salary loadings for specific levels of Indonesian language competence.

#### **Professional Accreditation:**

Separate professional accreditation as an interpreter and translator is available through application and testing by the NAATI (National Accreditation Authority for Translators and Interpreters).

#### **Recommended Double Majors:**

Asian Studies; Global Politics and Policy; History; International Aid and Development; International Aid and Development (OUA)

#### **Recommended Minors:**

Anthropology; Asian Studies; Japanese; Modern History

**Excluded Minors:**

Indonesian

**Main Research Areas:**

Graduates with strong command of Indonesian together with an appropriate disciplinary major would be well-positioned to undertake future research in international relations, security, terrorism, economics, anthropology, history or other major disciplines.

**Writing Skills:**

Asian Studies students are strongly encouraged to include a writing unit in their selection of a General Elective at either Part I or Part II.

**Further Study:**

Students are encouraged to consider Asian Studies (Honours) as a pathway to further research studies.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

IND101 Indonesian 1 - 3 points  
MURDOCH: S1-internal, S1-external

IND102 Indonesian 2 - 3 points  
MURDOCH: S2-internal, S2-external

AST102 Asian Centuries - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

IND201 Indonesian 3 - 3 points  
MURDOCH: UA3-internal, UA3-external

IND202 Indonesian 4 - 3 points  
MURDOCH: AU1-internal, AU1-external

IND203 Indonesian 5 - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

IND301 Indonesian 6 - 3 points  
MURDOCH: S1-internal, S1-external

IND302 Indonesian 7 - 3 points  
MURDOCH: S2-internal, S2-external

IND371 Media, Culture and Politics in Indonesia - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Recommended General Electives**

Students with advanced language skills may be eligible to enrol in a Semester in Indonesia. They should seek advice from the Academic Chair and Indonesian Language Coordinator before enrolling in:

IND243 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

OR

IND443 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

**JAPANESE (BA)**

School of Arts

Bachelor of Arts (BA) in Japanese

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)



- Some units only: Murdoch campus (external)

### **Parent Major:**

Bachelor of Arts

The Japanese language is a key to understanding the dramatic social and cultural change in modern Japan. The Japanese major, which is open to beginners and those with some knowledge of the language, consists of three years of interactive Japanese language study, fostering the four skills of speaking, listening, reading and writing. Students are encouraged to combine this with a major in Asian Studies, to strengthen appreciation of Japan's historical, political, economic and cultural context, and its global engagement.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Special Requirements:**

The course is open to beginners as well as those with language competency. Students with language competency will be granted exemption from lower level language units and will be placed at the level appropriate to their level of competency. Such students may be required to take alternative units to replace the lower level language units.

Native speakers of Japanese or those who have studied for two or more years at post-primary level at a Japanese-medium school cannot enrol in this major.

### **Employment Prospects:**

A variety of employment in Japan, particularly in the private business and education sectors; teaching, hospitality, media and other specialist positions in Australia and elsewhere engaging with Japanese people or companies.

### **Professional Accreditation:**

Separate professional accreditation as an interpreter or and translator is available through application to and testing by the NAATI (National Accreditation Authority for Translators and Interpreters).

### **Recommended Double Majors:**

Asian Studies; Global Politics and Policy; History; International Aid and Development; International Aid and Development (OUA)

### **Recommended Minors:**

Anthropology; Asian Studies; Indonesian; Modern History

### **Excluded Minors:**

Japanese

### **Further Studies:**

In-Country Study:

Students are strongly encouraged to consider in-country study options based on Murdoch's student exchange agreements with Japanese universities (currently 10 partner institutions). Up to two semesters of JPN443 Semester in Japan can be incorporated into this major. A postgraduate option is also offered under the Graduate Diploma in Asian Language (In-Country). A wide range of

scholarship opportunities and financial assistance are available. Please seek advice from the Academic Chair.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 9 credit points**

JPN101 Japanese 1 - 3 points  
MURDOCH: S1-internal

JPN102 Japanese 2 - 3 points  
MURDOCH: S2-internal

AST102 Asian Centuries - 3 points  
MURDOCH: S1-internal, S1-external

##### **General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 9 credit points**

JPN201 Japanese 3 - 3 points  
MURDOCH: UA3-internal

JPN202 Japanese 4 - 3 points  
MURDOCH: AU1-internal

JPN203 Japanese 5 - 3 points  
MURDOCH: S2-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and

minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Units - 9 credit points

JPN301 Japanese 6 - 3 points  
MURDOCH: UA3-internal

JPN302 Japanese 7 - 3 points  
MURDOCH: AU1-internal

JPN303 Japanese 8 - 3 points  
MURDOCH: S2-internal

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Recommended General Electives

Students should seek advice from the Academic Chair before enrolling in:

JPN443 Semester in Japan - 12 points  
MURDOCH: S1-internal, S2-internal

## ASIAN STUDIES HONOURS (BA(HONS))

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Asian Studies*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study. A topic must be proposed and a supervisor appointed by the Academic Chair before enrolment.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

AST561 Honours Topic in Asian Studies A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

AST562 Honours Topic in Asian Studies B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### Thesis - 12 credit points

AST569 Honours Thesis in Asian Studies - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## AUSTRALIAN INDIGENOUS STUDIES

### AUSTRALIAN INDIGENOUS STUDIES (BA)

School of Arts

*Bachelor of Arts (BA) in Australian Indigenous Studies*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Not currently available to new admissions

#### Parent Major:

Bachelor of Arts

Australian Indigenous Studies is a dynamic, exciting field of enquiry. This major explores the resilience of Australian Indigenous peoples - their contemporary cultural expression, life experiences, and aspirations. Students critically engage with and apply a range of theories related to national identity and Indigeneity, decolonisation, and social justice. Upon completion, students will have the skills and knowledges to be effective agents of social change. Opportunities for hands-on learning include a final-year capstone Work Integrated Learning experience in an Indigenous context.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

A degree in Australian Indigenous Studies can be combined with a professional major to provide additional vocational training for disciplines including education, community development, the law, nursing or environmental science. An AIS degree also prepares people to work in the public service, and in Indigenous or other

community organisations.

#### **Recommended Double Majors:**

Communication and Media Studies; Community Development; English and Creative Writing; Global Politics and Policy; History; Journalism; Philosophy; Public Relations; Sociology; Sustainable Development; Sustainable Development (OUA)

#### **Excluded Minors:**

Australian Indigenous Studies; Popular Culture, Indigeneity and Nationhood

#### **Main Research Areas:**

History, environmental, sociology, heritage, community development, culture and media.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points

##### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points

##### **Core Units - 6 credit points**

AIS180 Introduction to Australian Indigenous Studies - 3 points

AIS110 Introduction to Indigenous Popular Culture - 3 points

##### **General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points

##### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points

##### **Core Unit - 6 credit points**

AIS204 Indigenous Australia and the Nation - 3 points

AIS206 Country, Nature and Identity: Indigenous Sustainability - 3 points

##### **Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points

##### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points

##### **Core Unit - 9 credit points**

AIS308 Working with Indigenous Communities: Internship - 3 points

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points

AIS356 Reading Reconciliation - 3 points

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

##### **Specified Elective Unit List**

Select one specified elective during Year 2 from the following list.

TOU231 Indigenous Tourism Issues - 3 points  
(students must consult the Unit Coordinator)

COD302 Creative Ways to Work with Community - 3 points

EGL235 Australian Literature and Film - 3 points

NUR210 Indigenous Health and Cultural Diversity - 3 points

---

## **AUSTRALIAN INDIGENOUS STUDIES HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Australian Indigenous Studies

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at

<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

AIS561 Honours Topic in Australian Indigenous Studies A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

AIS562 Honours Topic in Australian Indigenous Studies B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

### Thesis - 12 credit points

AIS569 Honours Thesis in Australian Indigenous Studies - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

# 4

## BANKING

### BANKING (BBus)

School of Business and Governance

*Bachelor of Business (BBus) in Banking*

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### Parent Major:

Bachelor of Business

Traditionally banks have recruited new staff directly from schools. Today they are recruiting more graduates from tertiary institutions. In banking units the student is exposed to the issue of information asymmetry that exists between the borrower and the lender and the need to design contracts that reveal and monitor the quality of the borrower. The units also consider the nature and legal implications of the banker-customer relationship. The high debt that financial institutions have in their capital structure, the interest sensitivity of their assets and the liquidity that depositors demand result in unique interest, credit and liquidity risk management issues. These issues are further complicated by government regulation and directives. A fourth year of study is available in the form of an honours year.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

#### Admission Requirements (Offshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Completion of the banking major will open up employment opportunities for students in all types of financial institutions.

#### Professional Recognition:

Graduates are potentially eligible for associate membership of the Financial Services Institute of Australasia (FINSIA). For advice on specific requirements students should contact FINSIA directly.

#### Recommended Double Majors:

Accounting; Economics; Finance; Hospitality and Tourism Management; Human Resources Management; International Business; Management; Marketing

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 12 credit points

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS171 Foundations of Economics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS170 Foundations of Accounting - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 6 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### Core Units - 9 credit points

BSL201 Finance Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS286 Corporate Finance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS288 Treasury Management - 3 points

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

#### Core Units - 9 credit points

BUS307 Commercial Banking - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

BUS390 International Financial Markets and Institutions - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS308 Credit and Lending Decisions - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH:  
S1-internal (quota of 50 places)</span>

## BANKING HONOURS (BBUS(HONS))

School of Business and Governance

*Bachelor of Business Honours (BBUS(Hons)) in Banking*

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

#### Core Units - 9 credit points

MBS516 Advanced Honours Topic A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
MURDOCH: S1-internal, S2-internal

#### Specified Electives - 3 credit points

Select from the following:

MBS619 Qualitative Organisational Research - 3 points

MBS659 Quantitative Research for Business - 3 points  
MURDOCH: S1-internal, S1-external

#### Thesis - 12 credit points

MBS519 Honours Thesis - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## BIOLOGICAL SCIENCES

#### See also:

Biotechnology  
Conservation and Wildlife Biology  
Molecular Biology

## BIOLOGICAL SCIENCES (BSC)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Biological Sciences*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

#### Parent Major:

Bachelor of Science (Non-IT Majors)

The Biological Sciences major aims to produce biologists with wide-ranging training and experience in a broad area of biology. It adopts an integrated approach to the major themes of biology, from the molecular and cellular levels to the whole organism and community levels. This is achieved by examining the common features and differences in the biochemistry, genetics, ecology and behaviour of micro-organisms, plants and animals.

In addition, students may select electives to place emphasis on animal biology, biochemistry, conservation biology, ecology, fisheries science, microbiology and molecular biology.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken TEE Chemistry or WACE Chemistry 3A/3B and at least TEE Discrete Mathematics or WACE Mathematics 2C/2D.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Students will not be required to kill any vertebrate animal, although they may be required to work with vertebrate tissues or products. Some collection of invertebrate specimens is required.

**Employment Prospects:**

Graduates find employment with Federal, state and local agencies dealing with nature conservation and the Department of Agriculture and Food, hospitals and medical laboratories, in teaching and in the private sector. Employment prospects are broadened by taking a double major, or a major and one or more minors.

**Professional Recognition:**

Graduates are eligible for admission to a wide range of professional societies.

**Recommended Double Majors:**

Animal Health; Conservation and Wildlife Biology; Environmental Management and Sustainability; Environmental Science; Genetics and Molecular Biology; Marine Science

**Main Research Areas:**

Animal and plant biology and conservation, molecular biology, plant pathology, microbiology, fisheries biology, plant/fungal interactions, plant tissue culture, behavioural ecology.

**Major Prerequisites****Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 12 credit points**

BIO245 Plant Evolution, Radiation and Adaptation - 3 points  
MURDOCH: S1-internal

BIO244 Animal Speciation, Radiation, Evolution - 3 points  
MURDOCH: S2-internal

Plus two of the following three units:

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 6 credit points**

BIO356 Genetics and Evolution - 3 points  
MURDOCH: S1-internal

BIO379 Evolutionary Analysis - 3 points  
MURDOCH: S2-internal

**General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List****Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3

points

MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points

<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points



MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

**BIOLOGICAL SCIENCES HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Biological Sciences*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of Honours is to extend the student's grasp of the principles and practice of the subject, and to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 21 credit points**

VLS560 Honours Thesis in Biological Sciences - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

**BIOMEDICAL SCIENCE****See also:**

Forensic Biology

**BIOMEDICAL SCIENCE (BSC)**

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Biomedical Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

Biomedical Science applies the principles of cellular and molecular biology to the understanding of normal function and disease in humans.

The Biomedical Science major provides students with an opportunity to focus their training and experience in human and medical biology. It integrates the major themes of biomedical sciences at the molecular, cellular and whole-body level and addresses the remarkable advances being made by biomedical research. Knowledge from the fundamental disciplines of anatomy, physiology, biochemistry, histology and cell biology is integrated with, and applied to, knowledge in the paraclinical disciplines of pathology, microbiology, immunology, and molecular genetics, with the option of electives such as parasitology, pharmacology, histopathology and haematology. Teaching of these fundamental subjects is carried out in a systematic way with theoretical instruction backed up with extensive practical laboratory training within each discipline.

The major also prepares students for dealing with the impact and ethics of the scientific approach used in biomedical sciences. The material within this major provides pre- and paraclinical training and is excellent preparation for a career in medical research and related areas, or entry to a graduate medical degree.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Students are required to participate in practical work involving animals and/or fresh tissues from dead animals throughout the major.

#### **Employment Prospects:**

Biomedical scientists find employment in hospitals, medical research institutes, universities, government agencies and the private biotechnology sector where they are in demand as Medical Researchers, Medical Technologists, Biopharmaceutical Scientists, Health Department Administrators, Patent Attorneys, Medical Sales and Marketing Professionals, Biostatisticians and Teachers/Academics.

#### **Recommended Double Majors:**

Clinical Laboratory Science; Forensic Biology and Toxicology; Genetics and Molecular Biology; Mathematics and Statistics

#### **Excluded Minors:**

Biomedical Science

#### **Main Research Areas:**

Improvement of the understanding, treatment, prevention and diagnosis of human diseases including infectious diseases, cancer, genetic disease and complex diseases such as Alzheimer's, asthma and diabetes.

#### **Chemistry Background:**

Students may need to complete one prerequisite depending on their background in chemistry and their final scaled score in Chemistry: ATAR within the past three years.

Chemistry: ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry --3pts  
Murdoch : S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Part II - 48 credit points**

##### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 12 credit points**

BMS206 Biomedical Physiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 6 credit points**

BMS314 Pathological Basis of Disease - 3 points  
MURDOCH: S1-internal

BMS315 Advances in Medical Science - 3 points  
MURDOCH: S2-internal

**General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external
- BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal
- BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal
- BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal
- BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal
- CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external
- BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external
- BIO246 Microbiology - 3 points  
MURDOCH: S1-internal
- BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal
- BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal
- BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal
- ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external
- SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external
- COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external
- BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal
- ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external
- BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:

W-internal (quota of 40 places)&lt;/span&gt;

**Environmental Management and Sustainability Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>
- MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external
- MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external
- ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external
- ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external
- CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external
- BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal
- SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external
- COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external
- ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

**Environmental Science Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>
- ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>
- ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external
- CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external
- BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal
- MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Marine Science Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points

MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH: S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points

MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points

MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points

MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points

MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## **BIOMEDICAL SCIENCE HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Biomedical Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## **Course Structure - 24 credit points**

### **Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 21 credit points**

VLS525 Honours Thesis in Biomedical Science - 21 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
 Y-internal, Y-external

**BIOTECHNOLOGY****See also:**

Biological Sciences

**BIOTECHNOLOGY HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Biotechnology*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 21 credit points**

VLS535 Honours Thesis in Biotechnology - 21 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
 Y-internal, Y-external

**BUSINESS INFORMATION SYSTEMS****BUSINESS INFORMATION SYSTEMS (BSC)**

School of Engineering and Information Technology

*Bachelor of Science (BSc) in Business Information Systems*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Science (IT Majors)

Information Systems is the study of information generation, communication, storage, and application in the context of organised human activity. The increasing penetration of information technology into everyday organisational activity means that professionals in many areas, from management to engineering, increasingly need an understanding of information systems. The contribution of information systems to the functioning of organisations, the design and management of such systems and the development of systems to assist in other professional roles is emphasised in the Business Information Systems degree.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

**Employment Prospects:**

Graduates typically find employment as business analysts. Graduates combining Business Information Systems with another major will experience enhanced employment prospects in that area.

**Professional Recognition:**

This course is accredited at the Professional level with the Australian Computer Society.

**Recommended Double Majors:**

Computer Science; Cyber Forensics and Information Security; Internetworking and Network Security

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

ICT158 Introduction to Information Systems - 3 points  
 MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT159 Foundations of Programming - 3 points  
 MURDOCH: S1-internal, S1-external



ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## Part II - 48 credit points

### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Year 2 - 21 credit points

#### Research Skills Unit - 3 credit points

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

#### Core Units - 9 credit points

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

ICT285 Databases - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

ICT292 Information Systems Management - 3 points  
MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TJD-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 24 credit points

#### Research Skills Unit - 3 credit points

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

#### Core Units - 12 credit points

ICT393 Advanced Business Analysis and Design - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

ICT301 Enterprise Architectures - 3 points  
MURDOCH: S2-internal, S2-external

ICT394 Business Intelligence Application Development - 3 points  
MURDOCH: S1-internal, S1-external  
DUBAI-ISC: TSD-internal  
KAPLAN-SGP: TSA-internal

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## BUSINESS INFORMATION SYSTEMS (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Business Information Systems

Course Codes: B1205 B1205A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students)
- Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)
- Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

Information Systems is the study of information generation, communication, storage, and application in the context of organised human activity. The increasing penetration of information technology into everyday organisational activity means that professionals in many areas, from management to engineering, increasingly need an understanding of information systems. The contribution of information systems to the functioning of organisations, the design and management of such systems and the development of systems to assist in other professional roles is emphasised in the Business Information Systems degree.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

### Employment Prospects:

Graduates typically find employment as business analysts. Graduates combining Business Information Systems with another major will experience enhanced employment prospects in that area.

### Professional Recognition:

Eligible for membership of the Australian Computer Society at the Professional Level.

### Recommended Double Majors:

Computer Science; Cyber Forensics, Information Security and Management

## Course Structure - 72 credit points

Units in this structure may no longer be available at all course locations and, where appropriate, alternative units have been provided. Students are required to satisfy the total credit point value of both the degree and the major in order to graduate; this may require that additional units are taken, either as part of the major or as General Electives. To accommodate students impacted by this change, up to 2 credit points from the total credit point value of the degree (incorporating the major) may be waived. For further information, see [https://myanswers.custhelp.com/app/answers/detail/a\\_id/1017/](https://myanswers.custhelp.com/app/answers/detail/a_id/1017/)

### Part I - 24 credit points

#### Foundation Unit - 3 credit points

From 2014, Foundation units will no longer be offered at the

Murdoch Campus. Students who have not yet successfully completed a Foundation unit will be required to enrol in the following Transition Unit.

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students enrolled at the Dubai or Kaplan campus will enrol in:

FDN107 Next Life - 3 points  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

#### Core Units - 12 credit points

ICT102 Introduction to Computer Science - 3 points  
DUBAI-ISC: TJD-internal, TSD-internal

ICT103 Introduction to Data Communications - 3 points  
DUBAI-ISC: TJD-internal, TSD-internal

ICT107 Principles of Information Systems - 3 points  
DUBAI-ISC: TMD-internal

ICT108 Introduction to Internet and Mobile Technologies - 3 points  
DUBAI-ISC: TJD-internal, TMD-internal

#### Specified Electives - 3 credit points

Select from the following:

MAS180 Introduction to Statistics - 3 points  
MURDOCH: S1-external, S2-external  
DUBAI-ISC: TMD-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The following unit is no longer available - contact the Academic Chair for advice:

MAS167 Computational Mathematics - 3 points  
DUBAI-ISC: TMD-internal

OR

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS170 Foundations of Accounting - 3 points  
MURDOCH: S2-internal, S2-external

#### General Electives - 6 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### Core Units - 24 credit points

ICT231 Systems Analysis and Design - 4 points  
DUBAI-ISC: TMD-internal

ICT353 Advanced Business Analysis and Design - 4 points  
DUBAI-ISC: TSD-internal

ICT218 Databases - 4 points  
DUBAI-ISC: TMD-internal, TSD-internal

ICT333 Information Technology Project - 4 points  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

ICT208 Business Intelligence Tools and Techniques - 4 points  
DUBAI-ISC: TJD-internal, TSD-internal

ICT256 Knowledge Management Techniques - 4 points  
DUBAI-ISC: TMD-internal

#### General Electives - 24 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### BUSINESS INFORMATION SYSTEMS HONOURS (BSC(HONS))

School of Engineering and Information Technology

Bachelor of Science Honours (BSc(Hons)) in Business Information Systems

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Course Structure - 24 credit points

#### Coursework - 12 credit points

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus two 500-level IT units approved by the Academic Chair - 3 points each

#### Thesis - 12 credit points

ICT520 Honours Thesis in Business Information Systems - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### BUSINESS LAW

#### BUSINESS LAW (BBUS)

School of Law

Bachelor of Business (BBus) in Business Law

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Business

The Business Law major complements majors in accounting, finance, management and other business disciplines. The major also supplements legal studies that are not business oriented. Whether students are interested in government or private enterprise work, completion of the major will allow for an appreciation of relevant legal principles applicable to many areas of business. Increasing regulation of business activity means professionals need legal knowledge that equips them to make informed decisions and to recognise the need for further specific legal services. The major includes the study of contemporary business law for this use. The legal environment of business is exposed with a focus on skill development in legal problem solving.

A fourth year of study is available in the form of an honours year.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Prospective employers would include government agencies and medium to large corporations.

**Recommended Double Majors:**

Accounting; Finance; Human Resources Management; Management; Marketing

**Excluded Majors:**

Law; Law + Business [Combined]; Law - Graduate Entry

**Excluded Minors:**

Business Law

**Main Research Areas:**

Business law; Business regulation.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS170 Foundations of Accounting - 3 points  
MURDOCH: S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BSL201 Finance Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BSL202 Workplace Law - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BSL203 Marketing and Advertising Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BSL305 Company Law - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

BUS303 Taxation - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BSL391 Alternative Dispute Resolution - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

---

## **BUSINESS LAW HONOURS (BBUS(HONS))**

School of Law

*Bachelor of Business Honours (BBus(Hons)) in Business Law*

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Employment Prospects:**

Prospective employers would include government agencies and medium to large corporations.

### **Main Research Areas:**

Business Law

## **Course Structure - 24 credit points**

### **Coursework - 12 credit points**

MBS516 Advanced Honours Topic A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
MURDOCH: S1-internal, S2-internal

Any Masters unit (500-level) from a Law discipline - 3 points

### **Thesis - 12 credit points**

MBL519 Honours Thesis in Business Law - 12 points  
MURDOCH: S1-internal, S2-internal

---

## **CHEMISTRY**

### **CHEMISTRY (BSC)**

School of Engineering and Information Technology

*Bachelor of Science (BSc) in Chemistry*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

### **Parent Major:**

Bachelor of Science (Non-IT Majors)

A knowledge of chemical concepts is applicable to all areas of science and has many industrial and engineering applications. Chemists play leading roles in fighting disease (in humans, animals and agriculture), criminal investigations, discovery and utilisation of natural resources, developing sustainable industrial processes, and creating novel nano-materials.

The Chemistry major has been designed to provide students with a thorough understanding of chemistry whilst retaining the flexibility to study complementary areas of interest.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

It is recommended that students entering this major have completed Chemistry ATAR, Physics ATAR and Mathematics Specialist ATAR.

Applicants with other backgrounds will be considered for admission, but may need to undertake bridging units in first year.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Special Requirements:**

Students enrolling in units that have a practical component must make allowance for on-campus attendance to complete the practical work. The on-campus sessions for external students are generally held in a one-week block for each unit; the dates are published in each unit guide.

### **Employment Prospects:**

The employment situation for graduates with a Chemistry degree is bright, especially for those who combine chemistry with other disciplines. Opportunities for chemists are not limited to Australia, and the skills and knowledge acquired in a chemistry degree are valued around the world. The skills learned whilst studying chemistry can take graduates on to a satisfying career in numerous fields both in and out of the lab anywhere in the world. Chemists are found in roles within law and accounting firms, NGOs, government policy positions at the local and international level, and the art world. Creativity, passion, logical thinking, problem solving, and the ability to analyse complex situations are all skills at the top of any employer's list of desirable attributes. Chemists have these abilities in abundance. That's why chemists can be found at the forefront of research, teaching, the arts, and business.

### **Professional Accreditation:**

Accredited by the Royal Australian Chemical Institute (RACI).

### **Professional Recognition:**

With an appropriate choice of units, graduates are eligible for membership of the professional organisation for chemists, the Royal Australian Chemical Institute (RACI).

### **Recommended Double Majors:**

Environmental Science; Forensic Biology and Toxicology; Genetics and Molecular Biology; Mathematics and Statistics; Mineral Science; Physics and Nanotechnology

**Recommended Minors:**

3D Animation; Applied Statistics; Biomedical Science; Communication; Ecosystem Management; Environmental Issues; Forensic Biology; Industrial and Applied Mathematics; Marine Biology; Molecular Biology; Neuroscience; Resource Management; Security, Terrorism and Counterterrorism

**Excluded Minors:**

Organic and Biological Chemistry

**Main Research Areas:**

Solution chemistry, energy storage, hydrometallurgical chemistry, chemical analysis, advanced materials, bioprocessing, natural products chemistry and organic chemistry.

**Major Prerequisites****Chemistry Background**

Students may need to complete prerequisite units depending upon their background in chemistry and their final scaled score in Chemistry ATAR within the past three years.

Chemistry ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry not stated above should consult their Academic Chair for clarification of their enrolment requirements.

**Mathematics Background**

Students may need to complete prerequisite units depending on their background in mathematics and their final scaled score in Mathematic Methods ATAR (or Mathematics 3C/3D) or Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) within the past three years.

Students who have not achieved a final scaled score of 55 percent or higher in Mathematics Methods ATAR (or Mathematics (3C/3D)) need to complete as a bridging unit:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Physics Background**

Students may need to complete prerequisite units depending on their background in physics and their final scaled score in Physics 3A/3B within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics studies not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE145 Introduction to Chemical Concepts - 3 points  
MURDOCH: S2-internal, S2-external

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

CHE202 Physical Chemistry I - 3 points  
MURDOCH: S1-internal, S1-external

CHE205 Organic and Biological Chemistry I - 3 points

MURDOCH: S2-internal, S2-external

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 9 credit points**

CHE304 Materials Chemistry - 3 points  
MURDOCH: S2-internal, S2-external

CHE308 Organic and Biological Chemistry II - 3 points  
MURDOCH: S1-internal, S1-external

CHE347 Physical Chemistry II - 3 points  
MURDOCH: S2-internal, S2-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Research Skills Unit List**

##### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

##### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
 <span data-type="offering" data-unit="BIO393">MURDOCH:  
 W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
 MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
 MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
 MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
 <span data-type="offering" data-unit="BMS327">MURDOCH:  
 S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
 MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
 MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
 MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
 MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
 MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
 MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
 MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external



**Mathematics and Statistics Major**

- MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external
- ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external
- ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external
- ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

- MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external
- BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal
- BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external
- ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Mineral Science Major**

- ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external
- MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external
- BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal
- ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal
- BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external
- ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Marine Biology Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external
- BIO246 Microbiology - 3 points

- MURDOCH: S1-internal
- BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

**Additional Professional Accreditation Requirements**

Students seeking RACI accreditation must complete at least two Part I subjects in Physics or Mathematics, or a combination of the two at an appropriate level. For example, successful completion of:

- PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external
- MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**CHEMISTRY HONOURS (BSC(HONS))**

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Chemistry*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The Honours year is used to extend a student's grasp of the principles and practice of chemistry by undertaking a rigorous, research-based project. Mentoring by a member of staff enables Honours students to develop the ability for creative, independent research. Students are expected to be involved in the entire research process from concept through to writing and presenting the data obtained, along the way developing skills in advanced chemical technique, project management, high-level problem solving, and communication of research findings to peers.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Employment Prospects:**

Graduates can expect to find employment in a range of disciplines where research and problem solving skills are in demand. Honours graduates are favourably looked upon by employers as successful completion of a year long project provides concrete evidence of chemical, project management, problem solving, and communication skills.

**Professional Recognition:**

Graduates may be eligible for full membership of the Royal Australian Chemical Institute.

**Course Structure - 24 credit points****Coursework - 6 credit points**

CHE576 Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 18 credit points**

CHE500 Honours Thesis in Chemistry - 18 points  
MURDOCH: H-internal, Y-internal

**CHIROPRACTIC****See also:**

Exercise Physiology  
Sports Science

**CHIROPRACTIC SCIENCE + CLINICAL CHIROPRACTIC (BSC+BCLINCHIRO)**

School of Health Professions

Bachelor of Science (BSc) in Chiropractic Science + Bachelor of Clinical Chiropractic (BClinChiro)

Course Codes: B1331

Duration: 5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Restriction:** Enrolment is subject to restriction due to constraints on unit enrolments.

The Chiropractic Science major within the Bachelor of Science provides specialised knowledge enabling students to understand the fundamental elements of human anatomy, immunology, genetics, and microbiology. The major also includes a thorough understanding of chiropractic skills including physical examination, diagnosis with an emphasis on clinical orthopaedics and neurology. The major will provide skills to allow students to progress to the Bachelor of Clinical Chiropractic which prepares graduates for registration as Chiropractors within Australia and New Zealand.

The Bachelor of Clinical Chiropractic aims to build on the BSc (Chiropractic Science) to produce registrable graduates who have the evidence based practice skills to diagnose, treat and prevent pain and disability of the spine and musculoskeletal system. Graduates become proficient in manual and other therapies, physical rehabilitation and general well-being. As primary contact practitioners graduates will also be able to recognise signs and symptoms of a wide variety of other conditions and where appropriate refer to other health providers.

The Bachelor of Science (Chiropractic Science) degree is conferred following successful completion of the first three years of study. The Bachelor of Clinical Chiropractic degree is awarded following the successful completion of the final two years of study. Both degrees are essential for registration and clinical practice.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. Highly recommended subjects: Physics 3A/3B, Chemistry 3A/3B, Mathematics and Human Biological Science 3A/3B.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Immunisation: Students should note that immunisation is required for Chiropractic according to Category A, Schedule 1 of the University policy on Immunisation seen here:

<https://policy.murdoch.edu.au/docview/?docid=1536&public=true>  
Other vaccinations may be required when treating special populations.

**Professional Accreditation:**

This course is accredited by the Council on Chiropractic Education Australasia (CCEA). Graduates are eligible for registration with the Chiropractic Board of Australia and are also eligible for registration in New Zealand. Graduates from CCE (Council on Chiropractic Education) accredited educational institutions may be eligible to sit registration examinations in the United States, the United Kingdom, Europe and other parts of the world in accordance with the laws and requirements of each individual country and/or jurisdiction.

**Additional Academic Progress Requirements:**

Students who fail more than two core units per level (100, 200, 300, 400, 500), as well as students who fail a core unit a second time, will be excluded from the course for a period of no less than one teaching period following the teaching period in which the unit was failed, after a mandatory interview process with the Academic Chair. They may apply for readmission to the course after this time.

**Course Structure - 120 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 18 credit points**

CHI109 Introduction to Chiropractic - 3 points  
MURDOCH: S1-internal, S2-internal

CHI168 Introduction to Musculoskeletal Human Anatomy - 3 points  
MURDOCH: S1-internal, S2-external

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHI108 Human Anatomy I - 3 points  
MURDOCH: S2-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Part II - 96 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**Core Units - 18 credit points**

CHI255 Human Anatomy II - 3 points  
MURDOCH: S1-internal

BMS206 Biomedical Physiology - 3 points  
MURDOCH: S1-internal

CHI205 Immunology, Genetics and Microbiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

CHI234 Human Anatomy III - 3 points  
MURDOCH: S2-internal

CHI293 Physical Examination - 3 points  
<span data-type="offering" data-unit="CHI293">MURDOCH:  
S2-internal (quota of 90 places)</span>

### **Year 3 - 24 credit points**

#### **Research Skills Unit - 3 credit points**

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### **Core Units - 21 credit points**

CHI391 Processes in Human Disease - 3 points  
MURDOCH: S1-internal

CHI354 Chiropractic Skills - 3 points  
MURDOCH: S1-internal

CHI335 Diagnosis I - 3 points  
MURDOCH: S1-internal

CHI336 Diagnosis II - 3 points  
MURDOCH: S2-internal

CHI337 Diagnosis III - 3 points  
MURDOCH: S2-internal

CHI338 Technique I - 3 points  
MURDOCH: S2-internal

CHI339 Technique II - 3 points  
MURDOCH: S2-internal

### **Year 4 - 24 credit points**

#### **Core Units - 24 credit points**

CHI440 Clinical Radiology - 3 points  
Not available this year

CHI456 Differential Diagnosis - 3 points  
Not available this year

CHI459 Pharmacology and Applied Nutrition - 3 points  
Not available this year

CHI484 Pre-clinical Practicum - 6 points  
MURDOCH: Y1-internal

CHI457 Clinical Biomechanics - 3 points  
Not available this year

CHI448 Rehabilitation and Physical Therapy I - 3 points  
Not available this year

CHI441 Radiography: Principles and Positioning - 3 points  
Not available this year

### **Year 5 - 24 credit points**

#### **Core Units - 24 credit points**

CHI449 Rehabilitation and Physical Therapy II - 3 points  
Not available this year

CHI466 Mental Health Issues in Chiropractic Care and  
Pharmacology - 3 points  
Not available this year

CHI499 Clinical Practicum - 12 points  
Not available this year

CHI467 Ethics, Jurisprudence and Professional Practice

Management - 3 points  
Not available this year

CHI458 Public Health - 3 points  
Not available this year

### **Additional Academic Progress Requirements**

Students who fail more than two core units per level (100, 200, 300, 400, 500), as well as students who fail a core unit a second time, will be excluded from the course for a period of no less than one teaching period following the teaching period in which the unit was failed, after a mandatory interview process with the Academic Chair. They may apply for readmission to the course after this time.

## **CHIROPRACTIC HONOURS (BSC(HONS))**

School of Health Professions

Bachelor of Science Honours (BSc(Hons)) in Chiropractic

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

This course allows students to gain knowledge in the field of research specifically addressing research components and epidemiology. Students acquire an appreciation of the research process and an understanding of terminology needed to critically read literature. A 3 point unit involving a writing exercise will be required allowing the student to develop their research protocol.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a credit average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

#### **Employment Prospects:**

Research assistant in clinical research.

#### **Main Research Areas:**

Chiropractic clinical research.

### **Course Structure - 24 credit points**

#### **Coursework - 9 credit points**

EXS691 Research Methods in Exercise and Rehabilitation Sciences - 9 points  
MURDOCH: S1-internal

#### **Thesis - 15 credit points**

CHI550 Honours Thesis in Chiropractic - 15 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## COMMUNICATION AND MEDIA STUDIES

### COMMUNICATION AND MEDIA STUDIES (BA)

School of Arts

Bachelor of Arts (BA) in Communication and Media Studies

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### Parent Major:

Bachelor of Arts

This major provides students with skills and expertise for work in contemporary communication, media and cultural industries characterised by rapid change, digitalisation and technological innovation. Students are equipped with the knowledge base and skills for analysing and producing both traditional and new media texts, as well as understanding communication and cultural processes in the emerging creative industries. As the units in this major cover a wide range of critical communication issues, cultural theory and media concepts, students completing this course are well placed to embark on a research career in the industry or enrol for further studies at Honours and/or graduate level.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Graduates can expect to find employment in a wide range of fields, from the creative industries (new media, public relations, advertising, journalism, radio, television, music and print) to management, administration, government, public policy, media research, academia and teaching.

#### Recommended Double Majors:

Australian Indigenous Studies; English and Creative Writing; Journalism; Law; Law, Business and Society; Public Relations; Screen Production

#### Recommended Minors:

Gender Studies; International Aid and Development; Popular Culture, Indigeneity and Nationhood; Public Relations; Sustainable Development; Tourism; Web Strategy

#### Excluded Minors:

Communication; Media Studies; Social Justice in Contemporary Culture

#### Main Research Areas:

Communication Studies, Media Studies, Creative Industries, Communication Policy, Media Audiences, Global Media.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

CMS101 Introduction to Media Studies - 3 points  
MURDOCH: S2-internal, S2-external

CMS102 Contemporary Culture - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### Core Units - 9 credit points

CMS201 Screen: Small, Medium and Large - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

CMS202 Old Media, New Media - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

CMS203 Audiences, Users and Participants - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of

a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

#### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

#### Core Units - 9 credit points

CMS304 Communicating Global Issues - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

CMS305 Media Governance and the Public Sphere - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

CMS306 Critical Topics in Communication and Media Studies - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## COMMUNICATION AND MEDIA STUDIES HONOURS (BA(HONS))

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Communication and Media Studies*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

#### Main Research Areas:

Communication Studies, Media Studies, Cultural Studies, Creative Industries, Communication Policy, Media Audiences, Global Media.

### Course Structure - 24 credit points

#### Coursework - 12 credit points

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

CMS501 Honours Topic in Communication and Media Studies A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

CMS502 Honours Topic in Communication and Media Studies B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

#### Thesis - 12 credit points

CMS512 Honours Thesis in Communication and Media Studies - 12 points  
MURDOCH: S1-internal, S2-internal

## COMMUNITY DEVELOPMENT

### COMMUNITY DEVELOPMENT (BA)

School of Arts

*Bachelor of Arts (BA) in Community Development*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

Increasingly non- government, organisations, universities, business and various government instrumentalities are signalling a keenness to see 'community' more involved in their work. As a consequence neighbourhood groups, activists, groups working in overseas settings, schools, local councils, ecologists, Indigenous groups, social services organisations, resource companies, artists, businesses and universities are all talking about community development as a new way of doing things. This major is designed to prepare students to work in various fields and industries where community development is being taken up. It provides students with the chance to combine the study of 'real' and working examples of practice, the social and policy context confronting contemporary communities, intellectual traditions used to understand community work and some of the skills that are important in everyday community-based settings.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Required short work placement or practice project component.

**Employment Prospects:**

Careers in local government, community services, remote area education, indigenous communities, community arts and cultural development, overseas aid work, sustainable development, social work-related areas, economic, social and urban planning.

**Recommended Double Majors:**

Australian Indigenous Studies; Sociology; Sustainable Development (OUA)

**Main Research Areas:**

Social change and social equity.

**Credits and Exemptions:**

Students from the TAFE Community Work diploma and from other relevant diplomas may receive credits and exemptions.

**Languages and Writing Skills:**

Community Development students are strongly encouraged to include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek, all available at Murdoch through the Asian Studies or Theology courses.

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

COD125 Introduction to Community Development - 3 points  
MURDOCH: S1-internal, S1-external

SOC134 Introduction to Sociology - 3 points  
MURDOCH: S1-internal, S1-external

SUS100 Introduction to Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

COD201 Stories of doing Community Work - 3 points  
MURDOCH: S2-internal, S2-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

AIS204 Indigenous Australia and the Nation - 3 points  
MURDOCH: S1-internal, S1-external

SUS207 Overseas Aid and International Development - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

SUS310 Sustainable Urban Communities - 3 points  
MURDOCH: S1-internal, S1-external

COD303 Preparing for Professional Community Practice - 3 points  
MURDOCH: S2-internal, S2-external

COD214 Social Policy and Community Action - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## COMMUNITY DEVELOPMENT HONOURS (BA(HONS))

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Community Development

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

COD561 Honours Topic in Community Development A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

COD562 Honours Topic in Community Development B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### Thesis - 12 credit points

COD569 Honours Thesis in Community Development - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## COMPUTER SCIENCE

### COMPUTER SCIENCE (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Computer Science

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

### Parent Major:

Bachelor of Science (IT Majors)

The Computer Science major is designed to provide students with a thorough understanding of the theory, methods and systems used

by the information technology industry. Required units cover the major areas of software development, computer technology, systems applications and software engineering.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

### Employment Prospects:

Excellent career opportunities exist for Computer Science graduates in business, industry and government as programmers, systems analysts, database administrators, software architects, computer systems and network managers, user support officers and software engineers.

### Professional Recognition:

This course is accredited at the Professional level with the Australian Computer Society.

### Recommended Double Majors:

Business Information Systems; Cyber Forensics and Information Security; Games Technology; Internetworking and Network Security; Mobile and Web Application Development

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 15 credit points

ICT167 Principles of Computer Science - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

ICT285 Databases - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 24 credit points****Research Skills Unit - 3 credit points**

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 12 credit points**

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**COMPUTER SCIENCE (BSC)**

School of Engineering and Information Technology

Bachelor of Science (BSc) in Computer Science

Course Codes: B1205 B1205A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students)
- Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)
- Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

The Computer Science major is designed to provide students with a thorough understanding of the theory, methods and systems used by the information technology industry. Required units cover the major areas of software development, computer technology, systems applications and software engineering.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

**Employment Prospects:**

Excellent opportunities in business, industry and government as programmers, systems analysts, database administrators, computer systems and network managers, user support officers and software engineers.

**Professional Recognition:**

Eligible for membership of the Australian Computer Society at the Professional Level.

**Course Structure - 72 credit points**

Units in this structure may no longer be available at all course locations and, where appropriate, alternative units have been provided. Students are required to satisfy the total credit point value of both the degree and the major in order to graduate; this may require that additional units are taken, either as part of the major or as General Electives. To accommodate students impacted by this change, up to 2 credit points from the total credit point value of the degree (incorporating the major) may be waived. For further information, see [https://myanswers.custhelp.com/app/answers/detail/a\\_id/1017/](https://myanswers.custhelp.com/app/answers/detail/a_id/1017/)

**Part I - 24 credit points****Foundation Unit - 3 credit points**

From 2014, Foundation units will no longer be offered at the Murdoch Campus. Students who have not yet successfully completed a Foundation unit will be required to enrol in the following Transition Unit.

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students enrolled at the Dubai or Kaplan campus will enrol in:

FDN107 Next Life - 3 points  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

**Core Units - 15 credit points**

ICT102 Introduction to Computer Science - 3 points  
DUBAI-ISC: TJD-internal, TSD-internal

ICT103 Introduction to Data Communications - 3 points  
DUBAI-ISC: TJD-internal, TSD-internal

ICT104 Principles of Computer Science - 3 points  
DUBAI-ISC: TJD-internal, TMD-internal

ICT106 Fundamentals of Computer Systems - 3 points



DUBAI-ISC: TJD-internal, TMD-internal

The following unit is no longer available - contact the Academic Chair for advice:

MAS167 Computational Mathematics - 3 points  
DUBAI-ISC: TMD-internal

OR

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### General Electives - 6 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## Part II - 48 credit points

### Core Units - 24 credit points

ICT209 Data Structures and Abstractions - 4 points  
DUBAI-ISC: TJD-internal, TMD-internal

ICT218 Databases - 4 points  
DUBAI-ISC: TMD-internal, TSD-internal

ICT231 Systems Analysis and Design - 4 points  
DUBAI-ISC: TMD-internal

ICT306 Software Architectures - 4 points  
DUBAI-ISC: TJD-internal

ICT310 Operating Systems and Systems Programming - 4 points  
DUBAI-ISC: TMD-internal

ICT333 Information Technology Project - 4 points  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

### General Electives - 24 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## COMPUTER SCIENCE HONOURS (BSC(HONS))

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Computer Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band

less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

### Thesis - 12 credit points

ICT510 Honours Thesis in Computer Science - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## CONSERVATION AND WILDLIFE BIOLOGY

### See also:

Biological Sciences

## CONSERVATION AND WILDLIFE BIOLOGY (BSC)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Conservation and Wildlife Biology*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

### Parent Major:

Bachelor of Science (Non-IT Majors)

Conservation Biology is concerned with the study and protection of biological diversity. It requires a detailed understanding of biology as well as of the social, political and economic context in which conservation policy is developed and implemented. It is therefore an excellent interdisciplinary major embracing aspects of science and the social sciences. The core of the degree is a solid grounding in a range of biological disciplines and their application to the conservation of biota. This is supplemented by required material covering law and policy.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken TEE Chemistry or WACE Chemistry 3A/3B and at least Mathematics 2C/2D.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

Students undertaking units in Conservation Biology will not be required to kill any vertebrate animal but they will be required to

work with fresh tissue from dead animals in certain units.

#### **Employment Prospects:**

Federal, state and local agencies dealing with nature conservation; the interdisciplinary breadth of the course is also well suited to teaching careers.

#### **Professional Recognition:**

Eligible to seek membership of the Ecological Society of Australia and other relevant professional bodies.

#### **Recommended Double Majors:**

Animal Health; Biological Sciences; Environmental Management and Sustainability; Environmental Science; Genetics and Molecular Biology; Marine Science

#### **Excluded Minors:**

Marine Biology; Wildlife Conservation

#### **Main Research Areas:**

Conservation of endemic Western Australian flora and fauna, impacts of plant disease on the conservation of local communities, sustainable fisheries.

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Part II - 48 credit points**

##### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement

and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 9 credit points**

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO249 Fish and Wildlife Populations - 3 points  
MURDOCH: S1-internal

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

##### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills

Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Core Units - 9 credit points**

BIO356 Genetics and Evolution - 3 points  
MURDOCH: S1-internal

BIO375 Conservation Biology - 3 points  
MURDOCH: S1-internal

BIO376 Wildlife Biology - 3 points  
MURDOCH: S2-internal

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Research Skills Unit List**

#### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

**Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

**Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

**Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

**Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## **CONSERVATION AND WILDLIFE BIOLOGY HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Conservation and Wildlife Biology*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Thesis - 21 credit points**

VLS540 Honours Thesis in Conservation and Wildlife Biology - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## **CRIMINOLOGY**

### **CRIMINOLOGY (BA)**

School of Law

*Bachelor of Arts (BA) in Criminology*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

#### **Parent Major:**

Bachelor of Arts

Criminology is the study of crime and criminals. Students gain an understanding of criminal law and how the state responds to crime through the criminal justice system. This involves the study of policing, corrections, criminal behaviour and its treatment. It includes the interaction between psychology and law as well as topics related to minority groups and crime. Students study the causes and prevention of crime from a multidisciplinary approach.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Suitable for employment opportunities within the court and corrections, police services, youth work, community groups and government departments.

**Recommended Double Majors:**

Forensic Biology and Toxicology; Law, Business and Society; Security, Terrorism and Counterterrorism Studies; Security, Terrorism and Counterterrorism Studies (OUA)

**Recommended Minors:**

Crime Science; Law and Justice; Social and Developmental Psychology

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

LEG100 Law, Justice and Social Policy - 3 points  
MURDOCH: S2-internal, S2-external

CRM120 Criminological Research Methods - 3 points  
MURDOCH: S1-internal, S1-external

CRM100 Introduction to Criminology - 3 points  
MURDOCH: S1-internal, S1-external

BJU150 Law in Context - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

CRM203 Criminal Behaviour - 3 points

MURDOCH: S2-internal, S2-external

CRM201 Policing and Crime Prevention - 3 points

MURDOCH: S1-internal, S1-external

**Specified Electives - 3 credit points**

Select one 200-level unit from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Unit - 3 credit points**

CRM306 Advanced Criminology - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select two 300-level units from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least one unit must be at 200 level and at least two units must be at 300 level.

CRM202 Corrections - 3 points  
MURDOCH: S2-internal, S2-external

CRM219 International and Transnational Crimes - 3 points  
MURDOCH: S2-internal, S2-external

CRM388 Treatment of Criminal Behaviour - 3 points  
<span data-type="offering" data-unit="CRM388">MURDOCH: T1-internal, U2-internal (quota of 30 places)</span>

CRM389 Psychology and Law - 3 points  
MURDOCH: S2-internal, S2-external

CRM301 Crime Science - 3 points  
This unit runs in Summer, commencing 27th November 2017.

CRM302 Children and Crime - 3 points  
MURDOCH: S2-internal, S2-external

CRM307 Culture, Diversity and Crime - 3 points  
MURDOCH: S1-internal

CRM310 CRM Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal,

W-internal

---

## CRIMINOLOGY HONOURS (BA(HONS))

School of Law

*Bachelor of Arts Honours (BA(Hons)) in Criminology*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Dean of the School.

Students interested in Honours enrolment are advised to contact the Law School Office before application to discuss supervision of their potential research.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 6 credit points****Core Units - 6 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART604 Advanced Research Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 18 credit points**

CRM539 Honours Thesis in Criminology - 18 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

---

## CROP AND PASTURE SCIENCE

---

### CROP AND PASTURE SCIENCE (BSC)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Crop and Pasture Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

This Major will use a systems perspective to provide a sound understanding of the factors that affect the growth of plants used for food and forage production. It will demonstrate how plant

growth can be manipulated through various interventions. The farm business operating environment will be considered in terms of government policies, markets and the value chain. Embedded throughout will be consideration of the role of new technologies in improving the yield, profitability and sustainability of food production systems.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have studied WACE Chemistry 3A/3B and at least Mathematics 2A/2B.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Graduates will be able to pursue careers in agriculture, agribusiness, and government, acting in policy, technical, research and administrative roles. This will be with State and Australian Government Departments of Agriculture, agribusiness, other private industry and natural resource management groups.

**Recommended Double Majors:**

Animal Science

**Excluded Majors:**

Veterinary Science

**Main Research Areas:**

Crop and pasture production, agricultural biotechnology, food production, biosecurity, agribusiness, natural resource management.

**Major Prerequisites****Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

ANS105 Agricultural Science and Food Production - 3 points  
 MURDOCH: S1-internal, S1-external

MAS183 Statistical Data Analysis - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE140 Fundamentals of Chemistry - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external



BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## **Part II - 48 credit points**

### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Year 2 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

#### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

#### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Core Units - 9 credit points**

ENV243 Water and Earth Science - 3 points  
MURDOCH: S1-internal, S1-external

ANS207 Crop and Pasture Science - 3 points  
MURDOCH: S2-internal

ANS208 Crop Protection and Plant Biosecurity - 3 points  
MURDOCH: S2-internal

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Core Units - 9 credit points**

ANS309 Agricultural Markets, Economics and Policy - 3 points  
Not available this year

ANS311 Agricultural and Environmental Technologies - 3 points  
Not available this year

ANS312 Advanced Crop and Pasture Science - 3 points  
Not available this year

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Research Skills Unit List**

#### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

## CROP AND PASTURE SCIENCE HONOURS (BSC(HONS))

School of Veterinary and Life Sciences

Bachelor of Science Honours (BSc(Hons)) in Crop and Pasture Science

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Employment Prospects:

The Crop and Pasture Science Honours degree represents excellent preparation for a career in agriculture and agribusiness industries. Graduates will find employment in a wide range of agricultural industries from agribusiness, government departments of agriculture, rural supply and stock companies, as farm advisors and consultants, in research funded by government and industry agencies, in biosecurity and quarantine, and in schools, colleges and universities.

### Main Research Areas:

A wide range of disciplines are available for study including crop and pasture management, soil science and hydrology, biotechnology, food security, biosecurity, agricultural technologies, plant pathology

## Course Structure - 24 credit points

### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Thesis - 21 credit points

VLS565 Honours Thesis in Crop and Pasture Science - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## CYBER FORENSICS, INFORMATION SECURITY AND MANAGEMENT

### CYBER FORENSICS AND INFORMATION SECURITY (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Cyber Forensics and Information Security

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

### Parent Major:

Bachelor of Science (IT Majors)

Increasingly, government and corporate organisations need to identify information security risks and interdependencies between business functions. Escalating security threats to organisations' information assets and increasing needs for organisations to comply with governance of information management have resulted in organisations requiring well-trained ICT professionals capable of addressing three key issues: managing information; protecting information; and forensic investigation of information security incidents. Graduates of this major will be well suited to meet these important industry demands.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

Graduates may expect to take up appointment in a broad range of employment areas, including: Computer Information Consultant; Computer Intelligence Officer; Computer Support Officer; Cyber Forensic Investigator; Database Developer/Administrator; Forensic Auditor; Help Desk Officer; Internet Security Officer; IT Consultant; Systems Administrator; Systems/Business Analyst.

### Professional Recognition:

This course is accredited at the Professional level with the Australian Computer Society.

### Recommended Double Majors:

Computer Science; Internetworking and Network Security

### Excluded Minors:

Computer Forensics and Computer Security; Computer Forensics and Information Security Policy

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

#### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points

4

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

ICT171 Introduction to Server Environments and Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

#### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

##### **Core Units - 9 credit points**

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

ICT287 Computer Security - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

ICT285 Databases - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 24 credit points**

##### **Research Skills Unit - 3 credit points**

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

##### **Core Units - 12 credit points**

ICT378 Cyber Forensics and Information Technology - 3 points  
MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

ICT379 Security Architectures and Systems Administration - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

ICT380 Information Security Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## **CYBER FORENSICS AND INFORMATION SECURITY HONOURS (BSC(HONS))**

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Cyber Forensics and Information Security*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 12 credit points**

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

#### **Thesis - 12 credit points**

ICT530 Honours Thesis in Cyber Forensics, Information Security and Management - 12 points

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## ECONOMICS

### ECONOMICS (BBUS)

School of Business and Governance

Bachelor of Business (BBus) in Economics

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### Parent Major:

Bachelor of Business

The Bachelor of Business (Economics) emphasises the applications of economic analysis to real world situations. All economics majors develop logical, empirical and contextual knowledge through studying sequential core units in economic theory and applied economics. It is strongly recommended that students aiming to achieve a thorough grounding in economics and economic policy take additional electives in economics, statistics, political economy and management. Graduates of a Bachelor of Business (Economics) will demonstrate skills in the following three areas: logical problem solving, interpretation and analysis of data, and presenting and communicating ideas. The fourth year honours program provides training in more advanced economic analysis and the research skills required for employment as a professional economist.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

#### Admission Requirements (Offshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

The financial sector, Federal and State Public Service, major resource-based corporations, education and the health sector.

#### Professional Recognition:

Graduates are eligible for Associate Professional membership of the Economics Society of Australia.

#### Recommended Double Majors:

Accounting; Banking; Finance; Hospitality and Tourism Management; Human Resources Management; International Business; Management; Marketing

#### Main Research Areas:

Economic Growth; Human Capital Accumulation; Labour Markets; Maritime Economics; Asian Economies; Behavioural and Experimental Economics; Decision Theory; Sustainable Economic Development; Regional Economics; Environmental and Resource Economics.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 12 credit points

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS171 Foundations of Economics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS162 Economics in Society - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 6 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### Core Units - 9 credit points

BUS289 Macroeconomics A - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

BUS291 Microeconomics A - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

BUS292 Econometrics - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Year 3 - 21 credit points

##### Research Skills Unit - 3 credit points

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BUS318 Microeconomics B - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

BUS327 Macroeconomics B - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

BUS309 International Trade and Development - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH:  
S1-internal (quota of 50 places)</span>

**ECONOMICS HONOURS (BBUS(HONS))**

School of Business and Governance

*Bachelor of Business Honours (BBus(Hons)) in Economics*

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points****Core Units - 9 credit points**

MBS545 Advanced Economic Analysis: Honours - 3 points  
MURDOCH: S2-internal

MBS597 Contemporary Advances in Economics: Theory and Applications - Honours - 3 points  
MURDOCH: S1-internal

MBS500 Advanced Honours Topic in Economics - 3 points  
Not available this year

**Elective Unit - 3 credit points**

Any 500-level unit - 3 points

**Thesis - 12 credit points**

MBS505 Honours Thesis in Economics - 12 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

**EDUCATION****See also:**

Early Childhood Education  
Tertiary and Adult Education

**EARLY CHILDHOOD AND PRIMARY TEACHING (BED)**

School of Education

*Bachelor of Education (BEd) in Early Childhood and Primary Teaching*

Course Codes: B1319

Duration: 4 years full-time or part-time equivalent; mid-year commencement may result in a longer duration due to unit availability

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external) (except for one two week school experience (EDN2104), and a one week intensive (EDN248 and EDN236).)

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

**Parent Major:**

Bachelor of Education (Early Childhood and Primary Teaching Major)

The Bachelor of Education (Early Childhood and Primary Teaching) will prepare graduates to be educators in Early childhood Education and Care settings and to teach in a classroom from Kindergarten to Year 6. Students will study general primary curriculum as well as that specific to early childhood education and will be placed in both early childhood and primary classrooms for their Professional Experiences.

Professional Experience: There are 90 days of mentored teaching practice in this course.

The Bachelor of Education enables students to develop the knowledge, skills and capabilities to become a teacher. Students are supported in becoming effective educators with a strong grounding in learning, teaching and curriculum. Professional Experience is a key component of the degree, providing students with opportunities to engage with schools and the broader community and to apply their knowledge and skills in a range of school settings. Murdoch Education graduates develop the understanding and capacity to be a teacher as researcher, an agent for change and a socially just practitioner. The degree provides a foundation for lifelong learning through continued professional development and/or further study.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.



**Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

All units are offered externally with the exception of EDN2104 Professional Experience: English in Practice, EDN236 Teaching The Arts in Early Childhood and Primary, and EDN248 Teaching Health and Physical Education in Early Childhood and Primary.

**Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

**Professional Accreditation:**

Teacher Registration Board of WA (TRBWA)

<http://www.trb.wa.gov.au/>

Australian Children's Education and Care Quality Authority (ACECQA)

<http://www.acecqa.gov.au/>

**Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible to apply for registration with the Teacher Registration Board of WA (or other appropriate state registration boards), The Bachelor of Education Early Childhood and Primary is also an ACECQA approved early childhood teaching qualification.

**Excluded Majors:**

Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Primary Teaching; Primary, 1-10 Health and Physical Education

**Main Research Areas:**

Education, teaching

**Exemptions/Credit and School Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may

seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemptions from the Final Professional Experience (1 & 2): Early Childhood Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

**External Study:**

Not all required units in these majors are offered completely externally. Some are offered as intensive session's on-campus or in Perth metropolitan schools. Every effort is made to combine these units to enable students to arrange one on-campus session to complete these requirements.

a) External students must undertake the placement component for EDN2104 Professional Experience: English in Practice in a Perth metropolitan school and under the guidance of a Murdoch University Moderator. Subject to satisfactory completion of this unit, students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent professional experience in a school other than in metropolitan Perth.

b) On-campus attendance is required for a one-week intensive workshop that will cover content for both EDN248 Teaching Health and Physical Education in Early Childhood and Primary and EDN236 Teaching The Arts in Early Childhood and Primary.

**Alternative Entry Pathway:**

An alternative entry pathway exists via the Primary Teaching Combination from Challenger Institute of Technology to the Bachelor of Education (Early Childhood and Primary Teaching). This pathway provides applicants with advanced standing once they enter the University.

**Major Prerequisites****Mathematics Background**

Students who have not completed Mathematics Essential level (previously known as Stage 2) or above of Year 12 Mathematics may need to complete:

EDN110 Mathematics for Teaching - 3 points  
MURDOCH: S1-internal, S1-external

**Course Structure - 96 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 15 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

EDN114 Thinking Mathematically - 3 points  
MURDOCH: S2-internal, S2-external

EDN115 Thinking Scientifically - 3 points  
MURDOCH: S2-internal, S2-external

EDN168 Nurturing Creativity in the Early Years - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

## Part II - 72 credit points

### Year 2 - 27 credit points

#### Research Skills Unit - 3 credit points

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

#### Core Units - 24 credit points

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the School Experience and Early Childhood and Primary Curriculum units. A sample full-time study plan is available on the Course Planning Page and on the School of Education web site.

Students should be enrolled in or have completed EDN235 Teaching English and Literacy in Early Childhood and Primary and EDN236 Teaching The Arts in Early Childhood and Primary or EDN248 Teaching Health and Physical Education in Early Childhood and Primary before enrolling in EDN2104 Professional Experience: English in Practice.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN239 Professional Experience in a Long Day-care Centre - 3 points  
Not available this year

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN235 Teaching English and Literacy in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN355 Principles and Practices in Early Childhood Education - 3 points  
MURDOCH: S1-internal, S1-external

EDN237 Babies and Toddlers: Growing and Learning - 3 points  
Not available this year

EDN236 Teaching The Arts in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN248 Teaching Health and Physical Education in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN2104 Professional Experience: English in Practice - 3 points  
MURDOCH: S2-placement

### Year 3 - 24 credit points

#### Core Units - 24 credit points

Students must have successfully completed EDN2104 Professional Experience: English in Practice before enrolment in EDN3102 Professional Experience: Mathematics in Practice.

EDN351 Teaching Mathematics in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN461 Language and Literacies in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

EDN462 Mathematics and Numeracy in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN354 Integrated Early Childhood Curriculum - 3 points  
MURDOCH: S2-internal, S2-external

EDN3102 Professional Experience: Mathematics in Practice - 3 points  
MURDOCH: S2-internal, S2-external

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

### Year 4 - 21 credit points

#### Core Units - 21 credit points

EDN441 Teaching Humanities and Social Sciences in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN432 Early Childhood Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

EDN442 Teaching Science in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN4100 Professional Experience: Programming Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

Students must have completed 87 credit points and all Core Units (excluding the units below) prior to undertaking their final semester of study.

EDN434 Final Professional Experience 1: Early Childhood Teaching (K - PP) - 3 points  
MURDOCH: ST2-placement, ST3-placement

EDN435 Final Professional Experience 2: Early Childhood Teaching (K - PP) - 6 points  
MURDOCH: ST2-placement, ST3-placement

---

## PRIMARY, 1-10 HEALTH AND PHYSICAL EDUCATION (BED)

School of Education

*Bachelor of Education (BEEd) in Primary, 1-10 Health and Physical Education*

Course Codes: B1319

*Duration: 4 years full-time or part-time equivalent; mid-year commencement may result in a longer duration due to unit availability*

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

*Restriction: Enrolment is subject to restriction due to professional recognition requirements.*

#### Parent Major:

Bachelor of Education (Primary, 1-10 Health and Physical Education Major)

This course will prepare graduates to teach in a primary classroom from Years 1 to 6. In addition the graduates will specialise in Health and Physical Education (HPE) thus enabling them to be Curriculum Leaders in this learning area and to lead extracurricular activities. Students will study general primary curriculum as well as that specific to the teaching of HPE for Years 1 to 10. Professional Experience: There are 100 days of moderated teaching

practice in this course.

This course will prepare graduates to teach in a primary classroom from Years 1 to 6. In addition the graduates will specialise in Health and Physical Education (HPE) thus enabling them to be Curriculum Leaders in this learning area and to lead extracurricular activities. Students will study general primary curriculum as well as that specific to the teaching of HPE for Years 1 to 10.

Professional Experience: There are 90 days of moderated teaching practice in this course.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### **Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

#### **Employment Prospects:**

Primary schools; K-12 schools; district high schools; Health.

#### **Professional Accreditation:**

This course is accredited by the Teacher Registration Board of WA (TRBWA)

<http://www.trb.wa.gov.au/>

#### **Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible to apply for registration with the Teacher Registration Board of WA (or other appropriate state registration boards).

#### **Excluded Majors:**

Early Childhood and Primary Teaching; Primary Teaching; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Education Studies

#### **Main Research Areas:**

Education, teaching

#### **Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent, relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that

a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Professional Experience component of EDN4302 Final Professional Experience 1: Primary Teaching, and EDN4300 Final Professional Experience 2: Primary Teaching. Those who are currently employed in relevant teaching positions may seek permission to complete one Primary Professional Experience in their school. Students must contact the School of Education Professional Experience Office.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **Study Options:**

This course is offered in internal mode only. Some general education units may be available in external mode but HPE specific units require on-campus participation as part of their assessment.

#### **Alternative Entry Pathway:**

An alternative entry pathway exists via the Primary Teaching Combination from Challenger Institute of Technology to the Bachelor of Education (Primary, 1-10 Health and Physical Education). This pathway provides applicants with advanced standing once they enter the University.

### **Major Prerequisites**

#### **Mathematics Background**

Students may need to complete EDN110 Mathematics for Teaching - 3 points [MURDOCH: S1-internal, S1-external] if they have not completed Mathematics Essential level (previously known as Stage 2) or above of Year 12 Mathematics.

### **Course Structure - 96 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

##### **Core Units - 18 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

EDN114 Thinking Mathematically - 3 points  
MURDOCH: S2-internal, S2-external

EDN115 Thinking Scientifically - 3 points  
MURDOCH: S2-internal, S2-external

EDN116 Physical Education - 3 points  
MURDOCH: S2-internal

EDN117 Introduction to Health Education - 3 points  
MURDOCH: S1-internal

#### **Part II - 72 credit points**

**Year 2 - 24 credit points****Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 21 credit points**

Part-time students should contact their Academic Chair when creating their study plan, particularly as concurrent enrolment is necessary for the School Experience and Curriculum Units. A sample full-time study plan is available on the School of Education web site.

Students should be enrolled in or have completed EDN235 Teaching English and Literacy in Early Childhood and Primary and EDN236 Teaching The Arts in Early Childhood and Primary or EDN248 Teaching Health and Physical Education in Early Childhood and Primary before enrolling in EDN2104 Professional Experience: English in Practice.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN235 Teaching English and Literacy in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN356 Sport Education - 3 points  
MURDOCH: S1-internal

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

EDN236 Teaching The Arts in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN248 Teaching Health and Physical Education in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN2104 Professional Experience: English in Practice - 3 points  
MURDOCH: S2-placement

**Year 3 - 24 credit points****Breadth Unit for Degree - 3 credit points**

Select from prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at a 100 level, the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Research Skills Unit - 3 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 18 credit points**

Students should enrol concurrently in EDN464 Health and Physical Education and the Curriculum (Primary) and EDN465 Professional Experience: Perspectives on Curriculum.

EDN357 Sports Practicum - 3 points  
MURDOCH: S2-internal

EDN351 Teaching Mathematics in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN464 Health and Physical Education and the Curriculum

(Primary) - 3 points  
MURDOCH: S1-internal

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN3102 Professional Experience: Mathematics in Practice - 3 points  
MURDOCH: S2-internal, S2-external

**Year 4 - 24 credit points****Core Units - 24 credit points**

EDN442 Teaching Science in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN4100 Professional Experience: Programming Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN441 Teaching Humanities and Social Sciences in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

Prior to commencing the final semester of study students must have successfully completed all Core Units and all point requirements of the course, excluding the units in that final semester.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4302 Final Professional Experience 1: Primary Teaching - 3 points  
MURDOCH: ST2-placement, ST3-placement

EDN4300 Final Professional Experience 2: Primary Teaching - 6 points  
MURDOCH: ST2-placement, ST3-placement, ST4-placement

---

**PRIMARY TEACHING (BED)**

School of Education

*Bachelor of Education (BEd) in Primary Teaching*

Course Codes: B1319

*Duration: 4 years full-time or part-time equivalent; mid-year commencement may result in a longer duration due to unit availability*

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external) (except for one two-week school experience (EDN2104), and a one-week intensive (EDN248 and EDN236).)

*Restriction: Enrolment is subject to restriction due to professional recognition requirements.*

**Parent Major:**

Bachelor of Education (Primary Teaching Major)

Primary Teacher Education graduates are qualified to teach from Years 1 to 6 in primary schools.

The Bachelor of Education enables students to develop the knowledge, skills and capabilities to become a teacher. Students are supported in becoming effective educators with a strong grounding in learning, teaching and curriculum. Professional Experience is a key component of the degree, providing students with

opportunities to engage with schools and the broader community and to apply their knowledge and skills in a range of school settings. Murdoch Education graduates develop the understanding and capacity to be a teacher as researcher, an agent for change and a socially just practitioner. The degree provides a foundation for lifelong learning through continued professional development and/or further study.

**Professional Experience:** There are 100 days of moderated teaching practice in this course.

The Bachelor of Education enables students to develop the knowledge, skills and capabilities to become a teacher. Students are supported in becoming effective educators with a strong grounding in learning, teaching and curriculum. Professional Experience is a key component of the degree, providing students with opportunities to engage with schools and the broader community and to apply their knowledge and skills in a range of school settings. Murdoch Education graduates develop the understanding and capacity to be a teacher as researcher, an agent for change and a socially just practitioner. The degree provides a foundation for lifelong learning through continued professional development and/or further study.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### **Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

#### **Employment Prospects:**

Murdoch teacher education graduates are employed in government and non-government schools and other education-related occupations.

#### **Professional Accreditation:**

This course is accredited by the Teacher Registration Board of WA (TRBWA)  
<http://www.trb.wa.gov.au/>

#### **Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible to apply for registration with the Teacher Registration Board of WA (or other appropriate state registration boards).

#### **Recommended Minors:**

English and Literacy Education; Inclusive Education; Mathematics and Numeracy Education; Teaching Indonesian in Primary Schools; Teaching Japanese in Primary Schools

#### **Excluded Majors:**

Early Childhood and Primary Teaching; Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined

History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Primary, 1-10 Health and Physical Education

#### **Main Research Areas:**

Education, teaching.

#### **Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent, relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from a Professional Experience unit. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from School Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from Final Professional Experience (1 & 2): Primary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **External Study:**

Not all required units in these majors are offered completely externally. Some are offered as intensive sessions on-campus or in Perth metropolitan schools. Every effort is made to combine these units to enable students to arrange one on-campus session to complete these requirements.

a) External students must undertake the placement component for EDN2104 Professional Experience: English in Practice in a Perth metropolitan school and under the guidance of a Murdoch University Moderator. Subject to satisfactory completion of this unit, students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent professional experience in a school other than in metropolitan Perth..

b) On-campus attendance is required for a one-week intensive workshop covering both EDN248 Teaching Health and Physical Education in Early Childhood and Primary AND EDN236 Teaching The Arts in Early Childhood and Primary.

#### **Alternative Entry Pathway:**

An alternative entry pathway exists via the Primary Teaching Combination from Challenger Institute of Technology to the Bachelor of Education (Primary Teaching). This pathway provides applicants with advanced standing once they enter the University.

#### **Major Prerequisites**

##### **Mathematics Background**

Students who have not completed Mathematics Essential level (previously known as Stage 2) or above of Year 12 Mathematics may need to complete:

EDN110 Mathematics for Teaching - 3 points

MURDOCH: S1-internal, S1-external

**Course Structure - 96 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 12 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

EDN114 Thinking Mathematically - 3 points  
MURDOCH: S2-internal, S2-external

EDN115 Thinking Scientifically - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

OR

Consider using General Elective points to meet the requirements of an Education minor: Inclusive Education; English and Literacy Education; Mathematics and Numeracy Education; Teaching Indonesian in Primary Schools; or Teaching Japanese in Primary Schools.

**Part II - 72 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 18 credit points**

Part-time and external students should contact a School of Education Student Advisor when creating their study plan to ensure correct sequencing of Professional Experience and Primary Curriculum units. A sample full-time study plan is available on the Course Planning Page and the School of Education website.

Students must have successfully completed EDN235 Teaching English and Literacy in Early Childhood and Primary before enrolling in EDN2104 Professional Experience: English in Practice - 3 points.

Students must also co-enrol in either or both of EDN236 Teaching The Arts in Early Childhood and Primary and EDN248 Teaching Health and Physical Education in Early Childhood and Primary with EDN2104 Professional Experience: English in Practice.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points

MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN235 Teaching English and Literacy in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

EDN236 Teaching The Arts in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN248 Teaching Health and Physical Education in Early Childhood and Primary - 3 points  
MURDOCH: S2-internal, S2-external

EDN2104 Professional Experience: English in Practice - 3 points  
MURDOCH: S2-placement

**Year 3 - 24 credit points****Research Skills Unit - 3 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 15 credit points**

Students must have completed EDN2104 Professional Experience: English in Practice and must have successfully completed EDN351 Teaching Mathematics in Early Childhood and Primary before enrolment in EDN3102 Professional Experience: Mathematics in Practice.

EDN351 Teaching Mathematics in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN3102 Professional Experience: Mathematics in Practice - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select 200- or 300-level units from the Specified Electives Unit List below. Students who have completed at least 36 points at second year and above may enrol in a 400-level unit.

OR

Consider using Specified Elective points to meet the requirements of an Education minor: Inclusive Education; English and Literacy Education; Mathematics and Numeracy Education; Teaching Indonesian in Primary Schools; or Teaching Japanese in Primary Schools.

**Year 4 - 24 credit points****Core Units - 18 credit points**

EDN441 Teaching Humanities and Social Sciences in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN442 Teaching Science in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN4100 Professional Experience: Programming Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

Prior to commencing the Final Professional Experience units students must have successfully completed all other requirements of the course. EDN4302 Final Professional Experience 1: Primary Teaching and EDN4300 Final Professional Experience 2: Primary Teaching are taken in the final semester of the course.

EDN4302 Final Professional Experience 1: Primary Teaching - 3 points  
MURDOCH: ST2-placement, ST3-placement

EDN4300 Final Professional Experience 2: Primary Teaching - 6 points  
MURDOCH: ST2-placement, ST3-placement, ST4-placement

### Specified Electives - 6 credit points

Select 200- or 300-level units from the Specified Electives Unit List below. Students who have completed at least 36 points at second year and above may enrol in a 400-level unit.

OR

Consider using Specified Elective points to meet the requirements of an Education minor: Inclusive Education; English and Literacy Education; Mathematics and Numeracy Education; Teaching Indonesian in Primary Schools; or Teaching Japanese in Primary Schools.

### Specified Elective Unit List

EDN231 Introduction to Catholic Education - 3 points  
Not available this year

EDN232 Creed and Sacraments in Catholic Schools - 3 points  
MURDOCH: SB1-internal

EDN233 Prayer and Morality in Catholic Schools - 3 points  
Not available this year

EDN206 ICT in the Classroom - 3 points  
MURDOCH: S2-external

EDN308 Children's Literature in the Classroom - 3 points  
MURDOCH: S2-internal, S2-external

EDN304 Engaging Communities through Drama - 3 points  
MURDOCH: S2-internal

EDN328 Teaching English and Literacy to Students with Learning Difficulties and Disabilities - 3 points  
MURDOCH: S1-internal, S1-external

EDN329 Teaching Mathematics and Numeracy to Students with Learning Difficulties - 3 points  
MURDOCH: S2-internal, S2-external

EDN330 Teaching Students with High Incidence Disabilities - 3 points  
MURDOCH: SUM-internal, SUM-external

EDN355 Principles and Practices in Early Childhood Education - 3 points  
MURDOCH: S1-internal, S1-external

EDN462 Mathematics and Numeracy in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

EDN354 Integrated Early Childhood Curriculum - 3 points  
MURDOCH: S2-internal, S2-external

EDN461 Language and Literacies in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

AIS204 Indigenous Australia and the Nation - 3 points  
MURDOCH: S1-internal, S1-external

AIS206 Country, Nature and Identity: Indigenous Sustainability -

3 points  
MURDOCH: S1-internal, S1-external

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points  
MURDOCH: S2-internal, S2-external

AIS356 Reading Reconciliation - 3 points  
MURDOCH: S2-internal, S2-external

EGL240 Children's Theatre - 3 points  
MURDOCH: S1-internal

EGL252 Great Books Past and Present 1 - 3 points  
MURDOCH: S1-internal, S1-external

REL202 Faith, Conflict, and Human Rights - 3 points  
MURDOCH: S2-internal, S2-external

SOC203 Youth Cultures - 3 points  
MURDOCH: S2-internal, S2-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

EDN311 Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills - 3 points  
<span data-type="offering" data-unit="EDN311">MURDOCH: SB7-internal (closed as the offering has reached capacity)</span>

## SECONDARY TEACHING (ARTS COMBINED DRAMA) (BED+BA)

School of Education

*Bachelor of Education (BEd) in Secondary Teaching + Bachelor of Arts (BA) in Theatre and Drama*

Course Codes: B1328

*Duration: 5 years full-time or part-time equivalent; mid-year commencement may result in a longer duration due to unit availability*

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- This course is not available to International Students on a Student Visa for mid year entry.

*Restriction: Enrolment is subject to restriction due to professional recognition requirements.*

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas/subjects in secondary schools:

Drama  
English  
History / Humanities and Social Sciences  
Languages other than English (LOTE): Japanese  
Languages other than English (LOTE): Indonesian.

Advice about Murdoch majors suitable for each of these learning areas/subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

**Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

**Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

**Professional Accreditation:**

Teacher Registration Board of Western Australia (TRBWA).

**Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible for registration by the Teacher Registration Board of W.A.

**Excluded Majors:**

Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees)

**Main Research Areas:**

Education, teaching, curriculum

**Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

**External Study:**

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in

Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

**Course Structure - 120 credit points**

Students need to select their units in such a way that they develop two teaching areas/subjects. Teaching Area A (aligned to the BA in Drama) and Teaching Area B (selected from the other teaching areas offered). Study in the BA for Teaching Area B should be equivalent to five units (15 points) in total, with no more than two units at 100-level (6 points).

**Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points****Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

**Drama Units - 6 credit points**

EGL106 Drama, Theatre and Performance - 3 points  
MURDOCH: S2-internal

EGL121 Turning Points in Literature - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

**Part II - 96 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 24 credit points****Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 9 credit points****Education Units - 6 credit points**

Part-time and external students should contact a School of



Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

#### **Drama Unit - 3 credit points**

EGL236 Performance and Creative Arts - 3 points  
MURDOCH: S2-internal

#### **Specified Electives - 6 credit points**

##### **Drama Units - 6 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, relevant to Teaching Area B, subject to individual unit prerequisites.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 12 credit points**

###### **Education Units - 6 credit points**

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal  
Students are usually to enrol concurrently in this unit with their Teaching Area B curriculum unit.

Students must select as a Teaching Area B unit one of the following units which is different from their Teaching Area A (Drama), and for which they have the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN372 Teaching English - 3 points  
MURDOCH: S1-internal, S1-external

EDN373 Teaching Mathematics - 3 points  
MURDOCH: S1-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external

EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

##### **Drama Units - 6 credit points**

EGL349 Advanced Studies in Theatre and Performance - 3 points  
MURDOCH: S2-internal

EDN304 Engaging Communities through Drama - 3 points  
MURDOCH: S2-internal

#### **Specified Electives - 3 credit points**

##### **Drama Unit - 3 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University, relevant to Teaching Area B, subject to individual unit prerequisites.

#### **Year 4 - 24 credit points**

##### **Research Skills Units - 6 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

###### **Education Units - 15 credit points**

Students should enrol concurrently in EDN410 Professional Experience: BEd Secondary - 3 points and

EDN371 Teaching Drama - 3 points.

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal

##### **General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University, relevant to Teaching Area B subject to individual unit prerequisites.

#### **Year 5 - 24 credit points**

##### **Core Units - 24 credit points**

###### **Education Units - 24 credit points**

###### **Semester 1 - 12 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

Teaching Area A

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

Teaching Area B

Students must select as a continuation of Teaching Area B one of the following units which is different from their Teaching Area A (Drama), for which they have the prerequisites (minimum of 15 points) and which continues their 300-level unit in the area (3 points).

EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points  
Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

### Semester 2 - 12 credit points

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

### Specified Elective Unit List

#### Drama Units

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites.

EGL239 Acting and Production - 3 points  
MURDOCH: S1-internal

EGL240 Children's Theatre - 3 points  
MURDOCH: S1-internal

EGL342 Comparative Theatre - 3 points  
MURDOCH: S1-internal

EGL348 Shakespeare - 3 points  
MURDOCH: S2-internal, S2-external

## SECONDARY TEACHING (ARTS COMBINED ENGLISH) (BED+BA)

School of Education

Bachelor of Education (BEde) in Secondary Teaching + Bachelor of Arts (BA) in English and Creative Writing

Course Codes: B1328

Duration: 5 years Full-time or part-time equivalent. Mid year commencement may result in a longer duration due to unit availability.

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas/subjects in secondary schools:

Drama  
English

History / Humanities and Social Sciences

Languages other than English (LOTE): Japanese

Languages other than English (LOTE): Indonesian

Advice about Murdoch majors suitable for each of these learning areas/subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### Special Requirements:

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

#### Employment Prospects:

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

#### Professional Recognition:

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible for registration by the Teacher Registration Board of W.A.

#### Excluded Majors:

Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education

#### Main Research Areas:

Education, teaching, curriculum

#### Exemptions/Credit and Professional Experience:

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **External Study:**

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

### **Course Structure - 120 credit points**

Students need to select their units in such a way that they develop two teaching areas/subjects: Teaching Area A (aligned to the BA English) and Teaching Area B (selected from the other teaching areas offered). Study in the BA for Teaching Area B should be equivalent to five units (15 points) in total, with no more than two units at 100-year level (6 points).

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

###### **Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

###### **Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external  
BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

###### **Core Units - 12 credit points**

###### **Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external  
EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

###### **English Units - 6 credit points**

EGL121 Turning Points in Literature - 3 points  
MURDOCH: S1-internal, S1-external  
EGL122 Writing and Creativity - 3 points  
MURDOCH: S2-internal, S2-external

###### **General Electives - 3 credit points**

Select from any 100-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

#### **Part II - 96 credit points**

##### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 24 credit points**

##### **Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

##### **Core Units - 9 credit points**

###### **Education Units - 6 credit points**

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

###### **English Unit - 3 credit points**

EGL252 Great Books Past and Present 1 - 3 points  
MURDOCH: S1-internal, S1-external

##### **Specified Electives - 6 credit points**

###### **English Units - 6 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 9 credit points**

###### **Education Units - 6 credit points**

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal  
Students are usually to enrol concurrently in this unit with their Teaching Area B curriculum unit.

Students must select as a Teaching Area B one of the following units which is different from their Teaching Area A (English) and for which they have, or will have, the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal

EDN373 Teaching Mathematics - 3 points  
MURDOCH: S1-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external

EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

###### **English Unit - 3 credit points**

EGL345 Great Books Past and Present 2 - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points****English Units - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

**Year 4 - 24 credit points****Research Skills Units - 6 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points****Education Units - 15 credit points**

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external  
Students should enrol concurrently in this unit with their Teaching Area A unit.

EDN372 Teaching English - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area A and Teaching Area B, subject to individual unit prerequisites.

**Year 5 - 24 credit points****Core Units - 24 credit points****Education Units - 24 credit points****Semester 1 - 12 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

Teaching Area A  
EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

Teaching Area B  
Students must select as a continuation of their Teaching Area B one of the following units which is different from their Teaching Area A (English), for which they have the prerequisites (minimum of 15 points), and which continues their 300-level unit in the area.

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points

Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

**Semester 2 - 12 credit points**

Note that EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

**Specified Elective Unit List****English Units**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites.

EGL233 Telling True Stories - 3 points  
MURDOCH: S1-internal

EGL346 Literary Theory - 3 points  
Not available this year

EGL230 Popular Literature and Science Fiction - 3 points  
MURDOCH: S2-internal, S2-external

EGL235 Australian Literature and Film - 3 points  
MURDOCH: S1-internal, S1-external

EGL344 Sonnet to Song: Understanding Poetry - 3 points  
MURDOCH: S2-internal, S2-external

EGL343 Contemporary Fiction Writing - 3 points  
MURDOCH: S1-internal, S1-external

EGL348 Shakespeare - 3 points  
MURDOCH: S2-internal, S2-external

**SECONDARY TEACHING (ARTS COMBINED HISTORY) (BED+BA)**

School of Education

Bachelor of Education (BEd) in Secondary Education + Bachelor of Arts (BA) in History

Course Codes: B1328

Duration: 5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be

relevant to one of the following learning areas/subjects in secondary schools:

Drama

English

History / Humanities and Social Sciences

Languages other than English (LOTE): Japanese

Languages other than English (LOTE): Indonesian.

Advice about Murdoch majors suitable for each of these learning areas/subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### **Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

#### **Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

#### **Professional Accreditation:**

Teacher Registration Board of Western Australia (TRBWA).

#### **Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible for registration by the Teacher Registration Board of WA.

#### **Excluded Majors:**

Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English)

#### **Main Research Areas:**

Education, teaching, curriculum

#### **Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional

Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **External Study:**

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

### **Course Structure - 120 credit points**

Students need to select their units in such a way that they develop two teaching areas/subjects. Teaching Area A (aligned to the BA in History) and Teaching Area B (selected from the other teaching areas offered). Study in the BA for Teaching Area B should be equivalent to five units (15 points) in total, with no more than two units at 100-level (6 points).

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points

MURDOCH: S2-internal, S2-external

BAR150 Ideas and Identity - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 12 credit points**

##### **Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points

MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points

MURDOCH: S1-internal, S1-external

##### **History Units - 6 credit points**

HIS181 Introduction to History - 3 points

MURDOCH: S1-internal, S1-external

HIS182 Making of the Modern World - 3 points

MURDOCH: S2-internal, S2-external

#### **General Electives - 3 credit points**

Select from any 100-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

## Part II - 96 credit points

### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Year 2 - 24 credit points

#### Research Skills Unit - 3 credit points

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

#### Core Units - 9 credit points

##### Education Units - 6 credit points

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

##### History Unit - 3 credit points

HIS200 The Empire Strikes Back: Imperialism and Colonialism in Modern History - 3 points  
MURDOCH: S2-internal, S2-external

#### Specified Electives - 6 credit points

##### History Units - 6 credit points

Select from the Specified Elective Unit List below.

#### General Electives - 6 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Units - 9 credit points

##### Education Units - 6 credit points

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal  
Students are usually to enrol concurrently in this unit with their Teaching Area B curriculum unit.

Students must select as a Teaching Area B one of the following units which is different from their Teaching Area A (History) and for which they have, or will have, the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal

EDN372 Teaching English - 3 points

MURDOCH: S1-internal, S1-external

EDN373 Teaching Mathematics - 3 points

MURDOCH: S1-external

EDN375 Teaching Second/Foreign Languages - 3 points

MURDOCH: S1-internal, S1-external

EDN376 Teaching Science - 3 points

MURDOCH: S1-internal, S1-external

#### History Unit - 3 credit points

HIS300 Creating History - 3 points

MURDOCH: S2-internal, S2-external

#### Specified Electives - 6 credit points

##### History Units - 6 credit points

Select from the Specified Elective Unit List below.

#### General Electives - 3 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

### Year 4 - 24 credit points

#### Research Skills Units - 6 credit points

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Units - 15 credit points

##### Education Units - 15 credit points

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external  
Students should enrol concurrently in this unit with their Teaching Area A unit.

EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

#### General Electives - 3 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

### Year 5 - 24 credit points

#### Core Units - 24 credit points

##### Education Units - 24 credit points

##### Semester 1 - 12 credit points

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

Teaching Area A

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

#### Teaching Area B

Students must select as a continuation of Teaching Area B one of the following units which is different from their Teaching Area A (History), for which they have the prerequisites (minimum of 15 points) and which continues their 300-level unit in the area (3 points).

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points  
Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

### Semester 2 - 12 credit points

Students should note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

### Specified Elective Unit List

#### History Units

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. Units will normally be available at least once every two years.

HIS250 Hollywood and History - 3 points  
Not available this year

HIS302 Vision Splendid: An Alternative History of Australia - 3 points  
Not available this year

HIS324 Cold War 1945 - 1991: A Global History - 3 points  
MURDOCH: S2-internal, S2-external

HIS259 Europe Under the Dictators - 3 points  
Not available this year

HIS310 Modern Japan - 3 points  
Not available this year

HIS258 Soldiers and Civilians: War in the Pacific 1941-1945 - 3 points  
MURDOCH: S2-internal, S2-external

HIS334 Peasants, Rebels and Leviathan: Modern Southeast Asian History - 3 points  
MURDOCH: S1-internal, S1-external

HIS305 The Vietnam Wars - 3 points  
Not available this year

## SECONDARY TEACHING (ARTS COMBINED LANGUAGES OTHER THAN ENGLISH (INDONESIAN)) (BED+BA)

School of Education

Bachelor of Education (BEd) in Secondary Education + Bachelor of Arts (BA) in Indonesian

Course Codes: B1328

Duration: 5 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas / subjects in secondary schools:

Drama  
English  
History / Humanities and Social Sciences  
Languages other than English (LOTE): Japanese  
Languages other than English (LOTE): Indonesian.  
Advice about Murdoch majors suitable for each of these learning areas / subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### Special Requirements:

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

#### Employment Prospects:

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

#### Professional Accreditation:

Teacher Registration Board of Western Australia (TRBWA).

#### Professional Recognition:

On completion of the Bachelor of Education, students have a widely

accepted qualification from a recognised university and are eligible for graduate studies or registration by the Teacher Registration Board of W.A.

#### **Excluded Majors:**

Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Combined Science Degrees)

#### **Main Research Areas:**

Education, teaching, curriculum

#### **Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **External Study:**

External Study

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth..

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

### **Course Structure - 120 credit points**

Students need to select their units in such a way that they develop two teaching areas/subjects. Teaching Area A (aligned to the BA Languages other than English) and Teaching Area B (selected from the other teaching areas offered). Study in the BA for Teaching Area B should be equivalent to four units (12 points) in total.

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points

MURDOCH: S2-internal, S2-external

BAR150 Ideas and Identity - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

##### **Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points

MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points

MURDOCH: S1-internal, S1-external

##### **Indonesian Units - 9 credit points**

IND101 Indonesian 1 - 3 points

MURDOCH: S1-internal, S1-external

IND102 Indonesian 2 - 3 points

MURDOCH: S2-internal, S2-external

AST102 Asian Centuries - 3 points

MURDOCH: S1-internal, S1-external

### **Part II - 96 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 24 credit points**

##### **Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points

MURDOCH: S2-internal, S2-external

##### **Core Units - 15 credit points**

##### **Education Units - 6 credit points**

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points

MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points

MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points

MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points

MURDOCH: S2-external

##### **Indonesian Units - 9 credit points**

IND201 Indonesian 3 - 3 points

MURDOCH: UA3-internal, UA3-external

IND202 Indonesian 4 - 3 points

MURDOCH: AU1-internal, AU1-external

IND203 Indonesian 5 - 3 points

MURDOCH: S2-internal, S2-external

##### **General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.



Students are advised to use their General Elective units to develop their Curriculum Minor teaching area.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

##### **Education Units - 6 credit points**

Students are usually to enrol concurrently in EDN305 Professional Experience: BEd Secondary - 3 points and their Teaching Area B curriculum unit.

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal

Students must select as a Teaching Area B one of the following units which is different from their Teaching Area A (Languages other than English [Indonesian]) and for which they have, or will have, the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal

EDN372 Teaching English - 3 points  
MURDOCH: S1-internal, S1-external

EDN373 Teaching Mathematics - 3 points  
MURDOCH: S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external

EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

##### **Indonesian Units - 9 credit points**

IND301 Indonesian 6 - 3 points  
MURDOCH: S1-internal, S1-external

IND302 Indonesian 7 - 3 points  
MURDOCH: S2-internal, S2-external

IND371 Media, Culture and Politics in Indonesia - 3 points  
MURDOCH: S2-internal, S2-external

##### **General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

### **Year 4 - 24 credit points**

#### **Research Skills Units - 6 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

##### **Education Units - 15 credit points**

Students should enrol concurrently in EDN410 Professional Experience: BEd Secondary - 3 points and

EDN375 Teaching Second/Foreign Languages - 3 points.

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

#### **General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

### **Year 5 - 24 credit points**

#### **Core Units - 24 credit points**

##### **Education Units - 24 credit points**

##### **Semester 1 - 12 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

##### **Teaching Area A**

EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points

Not available this year

##### **Teaching Area B**

Students must select as a continuation of Teaching Area B one of the following units which is different from their Teaching Area A, for which they have the prerequisites (minimum of 15 points) and which continues their 300-level unit in the area (3 points).

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

##### **Semester 2 - 12 credit points**

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

## SECONDARY TEACHING (ARTS COMBINED LANGUAGES OTHER THAN ENGLISH (JAPANESE)) (BED+BA)

School of Education

Bachelor of Education (BEd) in Secondary Education + Bachelor of Arts (BA) in Japanese

Course Codes: B1328

Duration: 5 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas subjects in secondary schools:

Drama

English

History / Humanities and Social Sciences

Languages other than English (LOTE): Japanese

Languages other than English (LOTE): Indonesian.

Advice about Murdoch majors suitable for each of these learning areas / subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

### Special Requirements:

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

### Employment Prospects:

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

### Professional Accreditation:

Teacher Registration Board of Western Australia (TRBWA).

### Professional Recognition:

On completion of the Bachelor of Education, students have a widely

accepted qualification from a recognised university and are eligible for graduate studies or registration by the Teacher Registration Board of WA.

### Excluded Majors:

Education Studies; Secondary Teaching (Arts Combined Drama); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian))

### Main Research Areas:

Education, teaching, curriculum

### Exemptions/Credit and Professional Experience:

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience units. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

### External Study:

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

## Course Structure - 120 credit points

Students need to select their units in such a way that they develop two teaching areas/subjects. Teaching Area A (aligned to the BA Languages other than English) and Teaching Area B (selected from the other teaching areas offered). Study in the BA for Teaching Area B should be equivalent to four units (12 points) in total.

### Part I - 24 credit points

#### Year 1 - 24 credit points

#### Transition Unit - 3 credit points

BED100 Ideas in Education - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points****Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

**Japanese Units - 9 credit points**

JPN101 Japanese 1 - 3 points  
MURDOCH: S1-internal

JPN102 Japanese 2 - 3 points  
MURDOCH: S2-internal

AST102 Asian Centuries - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 96 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 24 credit points****Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 15 credit points****Education Units - 6 credit points**

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

**Japanese Units - 9 credit points**

JPN201 Japanese 3 - 3 points  
MURDOCH: UA3-internal

JPN202 Japanese 4 - 3 points  
MURDOCH: AU1-internal

JPN203 Japanese 5 - 3 points  
MURDOCH: S2-internal

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

Students are advised to use their General Elective units to develop their Curriculum Minor teaching area.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points****Arts Unit - 3 credit points**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points****Education Units - 6 credit points**

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal  
Students are usually to enrol concurrently in this unit with their Teaching Area B curriculum unit.

Students must select as a Teaching Area B one of the following units which is different from their Teaching Area A (Languages other than English [Japanese]) and for which they have, or will have, the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal

EDN372 Teaching English - 3 points  
MURDOCH: S1-internal, S1-external

EDN373 Teaching Mathematics - 3 points  
MURDOCH: S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external

EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

**Japanese Units - 9 credit points**

JPN301 Japanese 6 - 3 points  
MURDOCH: UA3-internal

JPN302 Japanese 7 - 3 points  
MURDOCH: AU1-internal

JPN303 Japanese 8 - 3 points  
MURDOCH: S2-internal

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

Students are advised to use their General Elective units to develop their Curriculum Minor teaching area.

**Year 4 - 24 credit points****Research Skills Units - 6 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points****Education Units - 15 credit points**

Students should enrol concurrently in EDN410 Professional Experience: BEd Secondary - 3 points and EDN375 Teaching Second/Foreign Languages - 3 points

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

### General Electives - 3 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

Students are advised to use their General Elective units to develop their Curriculum Minor teaching area.

### Year 5 - 24 credit points

#### Core Units - 24 credit points

#### Education Units - 24 credit points

##### Semester 1 - 12 credit points

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

Teaching Area A  
EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points  
Not available this year

Teaching Area B  
Students must select as a continuation of their Teaching Area B one of the following units which is different from their Teaching Area A, for which they have the prerequisites (minimum of 15 points), and which continues their 300-level unit in the area.

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

##### Semester 2 - 12 credit points

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

## SECONDARY TEACHING (COMBINED SCIENCE DEGREES) (BED+BSC)

School of Education

Bachelor of Education (BEd) in Secondary Education + Bachelor of Science (BSc)

Course Codes: B1329

Duration: 5 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

Restriction: Enrolment is subject to restriction due to professional recognition requirements.

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas / subjects in secondary schools:

Mathematics  
Sport and Health Science  
Science (Biological Sciences, Biomedical Science, Chemistry, Environmental Science, Marine Science, Mineral Science, Molecular Biology).

Advice about Murdoch majors suitable for each of these learning areas may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

### Special Requirements:

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

### Employment Prospects:

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

### Professional Accreditation:

Teacher Registration Board of Western Australia (TRBWA).

### Professional Recognition:

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible

for registration by the Teacher Registration Board of WA.

**Excluded Majors:**

Secondary Teaching (Arts Combined Drama); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Science Combined Mathematics); Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Japanese))

**Main Research Areas:**

Education, teaching, curriculum

**Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

**External Study:**

External Study

Not all required units in these majors are offered externally. Some Education Units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

**Course Structure - 120 credit points**

Students selecting the Secondary Teaching (Combined Science Degrees) (BEd, BSc) focus on one Teaching Area (Science). The requirements of the Combined Science Major, prevent students from taking the content study for a second teaching area (equivalent to four units with not less than two units at 200-400 level (6 points).

Students selecting the Secondary Teaching (Combined Science Degrees) (BEd, BSc) with a Science Major will also need sufficient prerequisite studies as there is no space in this combined degree structure for units that address gaps in science.

Students in the Secondary Teaching (Combined Science Degrees) (BEd, BSc) should select additional appropriate science units in general elective spaces to prepare them for teaching Integrated Science in lower secondary.

Select one of the following Science majors for the Curriculum Major teaching area:

Biological Sciences  
Biomedical Science  
Chemistry  
Environmental Science  
Marine Science  
Mineral Science  
Molecular Biology

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

**Education Units - 6 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

**Science Units - 9 credit points**

Select 100-level Core Units from the chosen Science major.

**Part II - 96 credit points**

**University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 24 credit points**

**Research Skills Unit - 3 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

**Core Units - 15 credit points**

**Education Units - 6 credit points**

Part-time and external students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

**Science Units - 9 credit points**

Select 200-level Core Units from the chosen Science major.

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area A, Science, subject to individual unit prerequisites

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 12 credit points****Education Units - 3 credit points**

Students in this Secondary Teaching (Combined Science Degrees) (BEd, BSc) will take additional professional experience in Science and not in a Teaching Area B.

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal

**Science Units - 9 credit points**

Select 300-level Core Units from the chosen Science major.

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area A, Science, subject to individual unit prerequisites.

Selection of units should address breadth in science to ensure capacity to teach Integrated Science in lower secondary.

**Year 4 - 24 credit points****Research Skills Units - 6 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

AND

Select one Research Skills Unit according to your Science Curriculum Major from the following units:

**Biological Sciences**

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

**Biomedical Science**

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

**Chemistry**

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

**Environmental Science**

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60

places)</span>

**Marine Science**

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

**Mineral Science**

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

**Molecular Biology**

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

**Core Units - 15 credit points****Education Units - 15 credit points**

Students should enrol concurrently in EDN410 Professional Experience: BEd Secondary - 3 points and

EDN376 Teaching Science - 3 points.

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area A, Science, subject to individual unit prerequisites.

Selection of units should address breadth in science to ensure capacity to teach Integrated Science in lower secondary.

**Year 5 - 24 credit points****Semester 1 - 12 credit points****Education Units - 9 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University relevant to Teaching Area A, Science, subject to individual unit prerequisites. Selection of units should address breadth in science to ensure capacity to teach Integrated Science in lower secondary.

**Semester 2 - 12 credit points****Education Units - 12 credit points**

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching

and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

---

## **SECONDARY TEACHING (SCIENCE COMBINED MATHEMATICS) (BED+BSC)**

School of Education

*Bachelor of Education (BEd) in Secondary Education + Bachelor of Science (BSc) in Mathematics and Statistics*

Course Codes: B1329

Duration: 5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 1 only.

*Restriction: Enrolment is subject to restriction due to professional recognition requirements.*

Secondary Teacher Education graduates may apply for registration to teach one or more learning areas at the secondary school level. For Secondary Teacher Education students the Bachelor degree studied concurrently with the Bachelor of Education should be relevant to one of the following learning areas/subjects in secondary schools:

Mathematics  
Sport and Health Science  
Science (Biological Sciences, Biomedical Science, Chemistry, Environmental Science, Marine Science, Mineral Science, Molecular Biology).

Advice about Murdoch majors suitable for each of these learning areas/subjects may be obtained from the Academic Chair (Secondary).

Professional Experience: There are 80 days of mentored teaching practice in this course.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

**Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is

essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

**Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

**Professional Accreditation:**

Teacher Registration Board of Western Australia (TRBWA).

**Professional Recognition:**

On completion of the Bachelor of Education, students have a widely accepted qualification from a recognised university and are eligible for registration by the Teacher Registration Board of W.A.

**Excluded Majors:**

Secondary Teaching (Science Combined Sport and Health Science); Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees)

**Main Research Areas:**

Education, teaching, curriculum

**Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

**External Study:**

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must undertake the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the Murdoch University School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other

than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

### Course Structure - 120 credit points

Students need to select their units in such a way that they develop two teaching areas/subjects. Teaching Area A (aligned to the BSc Mathematics and Statistics) and Teaching Area B (selected from the other teaching areas offered). Study undertaken for Teaching Area B should be equivalent to four units (12 points) in total.

#### Part I - 24 credit points

##### Year 1 - 24 credit points

###### Transition Unit - 3 credit points

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

###### Breadth Unit for Degree - 6 credit points

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external  
BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

###### Core Units - 15 credit points

###### Education Units - 6 credit points

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external  
EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

###### Mathematics Units - 9 credit points

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Part II - 96 credit points

##### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 24 credit points

###### Research Skills Unit - 3 credit points

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

###### Core Units - 15 credit points

###### Education Units - 6 credit points

Part-time and external students should contact a School of Education School Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external  
EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external  
EDN221 Learning and Teaching - 3 points

MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

###### Mathematics Units - 9 credit points

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external  
MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external  
MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

###### General Electives - 6 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

##### Year 3 - 21 credit points

###### Research Skills Unit - 3 credit points

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

###### Core Units - 15 credit points

###### Education Units - 6 credit points

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal  
Students should enrol concurrently in this unit with their Teaching Area B curriculum unit.

Students must select as a Teaching Area B one of the following units which is different from their Teaching Area A and for which they have, or will have, the prerequisites (minimum of 15 points). At least 9 points must have been completed before enrolment in these units.

EDN371 Teaching Drama - 3 points  
MURDOCH: S1-internal  
EDN372 Teaching English - 3 points  
MURDOCH: S1-internal, S1-external  
EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external  
EDN376 Teaching Science - 3 points  
MURDOCH: S1-internal, S1-external  
EDN377 Teaching Humanities and Social Sciences - 3 points  
MURDOCH: S1-internal, S1-external

###### Mathematics Units - 9 credit points

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external  
MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external  
MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

###### General Electives - 3 credit points

Select from any 200- to 400-level units offered by the University relevant to Teaching Area B, subject to individual unit prerequisites.

##### Year 4 - 24 credit points

###### Research Skills Units - 6 credit points

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external  
MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external



**Core Units - 15 credit points****Education Units - 15 credit points**

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external  
Students should enrol concurrently in this unit with their Teaching Area A unit.

EDN373 Teaching Mathematics - 3 points  
MURDOCH: S1-external

**General Electives - 3 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

Students are advised to use their General Elective units to develop their Curriculum Teaching Area B.

**Year 5 - 24 credit points****Core Units - 24 credit points****Education Units - 24 credit points****Semester 1 - 12 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

In Year 5 students complete two additional curriculum units that extend the work begun in Years 3 and 4.

Teaching Area A

EDN473 Teaching Senior Secondary Mathematics - 3 points  
Not available this year

Teaching Area B

Students must select as a continuation of Teaching Area B one of the following units which is different from their Teaching Area A, for which they have the prerequisites (minimum of 15 points) and which continues their 300-level unit in the area (3 points).

EDN471 Teaching Senior Secondary Drama - 3 points  
Not available this year

EDN472 Teaching Senior Secondary English - 3 points  
Not available this year

EDN475 Teaching Senior Secondary Second/Foreign Languages - 3 points  
Not available this year

EDN476 Teaching Senior Secondary Science - 3 points  
Not available this year

EDN477 Teaching Senior Secondary Humanities and Social Sciences - 3 points  
Not available this year

**Semester 2 - 12 credit points**

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent

in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

---

## **SECONDARY TEACHING (SCIENCE COMBINED SPORT AND HEALTH SCIENCE) (BED+BSC)**

School of Education

Bachelor of Education (BEd) in Secondary Education + Bachelor of Science (BSc) in Sport and Health Science

Course Codes: B1329

Duration: 5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (some attendance is required in individual units)

*Restriction: Enrolment is subject to restriction due to professional recognition requirements.*

Bachelor of Education (BEd) in Secondary Teaching + Bachelor of Science (BSc) in Sport and Health Science graduates are qualified to teach Health and Physical Education.

Further advice about these learning areas may be obtained from the Academic Chair BEd Secondary (HPE).

Professional Experience: There are 90 days of mentored teaching practice in this course.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

**Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Please note the following requirements for Teacher Registration in Australia: Students admitted to Initial Teacher Education programs on the basis of an International English Language Testing System (IELTS) assessment, or an equivalent English language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score below 7 in any of the four skills areas, and a score of no less than 8 in speaking and listening), either on entry to or on graduation from the program.

**Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education-related occupations.

**Professional Recognition:**

On completion of the Bachelor of Education, students have a widely

accepted qualification from a recognised university and are eligible for registration by the Teacher Registration Board of W.A.

#### **Excluded Majors:**

Early Childhood and Primary Teaching; Primary Teaching; Primary, 1-10 Health and Physical Education; Secondary Teaching (Arts Combined English); Secondary Teaching (Arts Combined History); Secondary Teaching (Arts Combined Languages other than English (Indonesian)); Secondary Teaching (Arts Combined Languages other than English (Japanese)); Secondary Teaching (Combined Science Degrees); Secondary Teaching (Science Combined Mathematics)

#### **Main Research Areas:**

Education, teaching, curriculum

#### **Exemptions/Credit and Professional Experience:**

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

#### **External Study:**

Not all required units in these majors are offered externally. Some Education units are offered as intensive sessions on-campus or in Perth metropolitan schools only.

External students must the placement component of EDN305 Professional Experience: BEd Secondary in a Perth metropolitan school. Subject to satisfactory completion of this unit, external students may arrange, in consultation with the School of Education Professional Experience Office, to complete their subsequent Professional Experience in a school other than in metropolitan Perth.

External availability for this combined course will vary depending on unit availability in your non-Education subject area.

## **Course Structure - 120 credit points**

### **Part I - 27 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BED100 Ideas in Education - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 6 credit points**

BED150 Understanding Teachers' Work - 3 points  
MURDOCH: S2-internal, S2-external

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Core Units - 15 credit points**

#### **Education Units - 9 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN113 Living and Learning with Technology - 3 points  
MURDOCH: S1-internal, S1-external

EDN116 Physical Education - 3 points  
MURDOCH: S2-internal

#### **Sport and Health Science Units - 6 credit points**

EXS124 Introduction to Sports Science - 3 points  
MURDOCH: S1-internal

PSY172 Introduction to Psychological Health and Wellbeing - 3 points  
MURDOCH: S2-internal

### **Year 2 - 3 credit points**

#### **Core Units - 3 credit points**

##### **Sport and Health Science Units - 3 credit points**

EXS102 Human Physiology - 3 points  
MURDOCH: S2-internal

### **Part II - 93 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Year 2 - 21 credit points**

#### **Research Skills Unit - 6 credit points**

BED200 Assessment and Action Research - 3 points  
MURDOCH: S2-internal, S2-external

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

#### **Core Units - 15 credit points**

##### **Education Units - 9 credit points**

Part-time students should contact a School of Education Student Advisor when creating their study plan, particularly as it is necessary for concurrent enrolment in the Professional Experience and Secondary Curriculum units.

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN221 Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points  
MURDOCH: S2-external

EDN356 Sport Education - 3 points  
MURDOCH: S1-internal

##### **Sport and Health Science Units - 6 credit points**

EXS201 Sport and Exercise Psychology - 3 points  
MURDOCH: S1-internal

EXS203 Health, Fitness and Performance Assessment - 3 points  
MURDOCH: S1-internal

### **Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

BED300 Schooling and Society - Research Skills - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 18 credit points****Education Units - 6 credit points**

Students usually enrol in the following two units concurrently.

EDN305 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-internal

EDN374 Teaching Physical Education - 3 points  
MURDOCH: S1-internal

**Sport and Health Science Units - 12 credit points**

EXS202 Exercise Physiology I - 3 points  
MURDOCH: S1-internal

EXS205 Acquisition of Skills and Motor Control - 3 points  
MURDOCH: S2-internal

EXS301 Advanced Sport and Exercise Psychology - 3 points  
MURDOCH: S2-internal

EXS302 Exercise Physiology II - 3 points  
MURDOCH: S2-internal

**Year 4 - 24 credit points****Research Skills Unit - 3 credit points**

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**Core Units - 21 credit points****Education Units - 15 credit points**

Students should enrol concurrently in EDN410 Professional Experience: BEd Secondary - 3 points and EDN378 Teaching Health - 3 points

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points  
MURDOCH: S1-internal, S1-external

EDN332 Children, Families and Communities - 3 points  
MURDOCH: S2-internal, S2-external

EDN446 Adolescent Health and Development - 3 points  
MURDOCH: S2-internal, S2-external

EDN410 Professional Experience: BEd Secondary - 3 points  
MURDOCH: S1-external

EDN378 Teaching Health - 3 points  
MURDOCH: S1-internal

**Sport and Health Science Units - 6 credit points**

EXS204 Biomechanics I - 3 points  
MURDOCH: S2-internal

EXS303 Exercise, Programming and Prescription - 3 points  
MURDOCH: S1-internal

**Year 5 - 24 credit points****Core Units - 24 credit points****Education Units - 24 credit points****Semester 1 - 12 credit points**

EDN465 Professional Experience: Perspectives on Curriculum - 3 points  
MURDOCH: ST2-placement

EDN358 Creating and Managing Effective Learning Environments - 3 points  
MURDOCH: S1-internal, S1-external

EDN474 Teaching Senior Secondary Physical Education - 3 points  
Not available this year

EDN478 Teaching Senior Secondary Health - 3 points  
Not available this year

**Semester 2 - 12 credit points**

Note that enrolment in EDN4303 Final Professional Experience 1: Secondary Teaching and EDN4301 Final Professional Experience 2: Secondary Teaching require that 40 days be spent in schools, so enrolling in other units is not possible.

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN4303 Final Professional Experience 1: Secondary Teaching - 3 points  
Not available this year

EDN4301 Final Professional Experience 2: Secondary Teaching - 6 points  
Not available this year

**ENGINEERING****See also:**

Chemistry  
Engineering Technology  
Environmental Science

**ELECTRICAL POWER ENGINEERING HONOURS (BE(HONS))**

School of Engineering and Information Technology

*Bachelor of Engineering Honours (BE(Hons)) in Electrical Power Engineering*

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Electrical Power Engineering concerns the study of power system elements including power generators, transmissions and distribution systems components. At the completion of this course graduates will have gained a good understanding of power systems analysis, operation and control. Particular emphasis is also placed on system stability, safety and protection issues.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. It is recommended that students have completed the equivalent of WACE Mathematics 3C/3D, Mathematics: Specialist 3C/3D, Physics 3A/3B and Chemistry 3A/3B. Students who do not have the necessary Mathematical and Physics prerequisite knowledge may take an extra semester to complete their studies.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Engineering Academic Chair.

**Employment Prospects:**

An extremely wide range of opportunities are available in both the commercial and industrial sectors covering information technology, manufacturing, medical, mining, processing, energy supply, communications, electronics, computer systems and defence-related industries to name a few.

**Professional Recognition:**

Graduates of accredited engineering courses are eligible for

graduate membership of Engineers Australia. Full Chartered Professional Engineer status can then be achieved after a further three to five years of work experience in the engineering profession.

## Course Prerequisites

### Mathematics Background

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### Physics Background

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics 3A/3B (or equivalent) within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

## Course Structure - 96 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

##### Breadth Unit for Degree - 3 credit points

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

##### Core Units - 18 credit points

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points  
MURDOCH: S2-internal

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG125 Circuits and Systems I - 3 points  
MURDOCH: S2-internal

### Part II - 72 credit points

#### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement

and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

##### Core Units - 18 credit points

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENG294 Discrete Time Systems - 3 points  
MURDOCH: S2-internal, SUM-internal, U-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

#### Year 3 - 24 credit points

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

##### Research Skills Unit - 3 credit points

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

##### Core Units - 12 credit points

ENG317 Electromechanical Energy Conversion - 3 points  
MURDOCH: S1-internal

ENG318 Power Electronic Converters and Systems - 3 points  
MURDOCH: S1-internal

ENG323 Power Transmission and Distribution Networks - 3 points  
MURDOCH: S2-internal

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

##### Specified Electives - 9 credit points

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

#### Year 4 - 24 credit points

##### Core Units - 18 credit points

ENG449 Electrical Power Systems Design - 3 points  
MURDOCH: S1-internal

ENG451 Power Systems Protection and Control - 3 points  
MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal</span>

##### Specified Electives - 6 credit points

In order to obtain professional accreditation, students must take

units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

## **ENVIRONMENTAL ENGINEERING HONOURS (BE(HONS))**

School of Engineering and Information Technology

*Bachelor of Engineering Honours (BE(Hons)) in Environmental Engineering*

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

Environmentally sound engineered systems are of increasing interest in our society.

This major will equip graduates with the discipline knowledge and problem-solving skills to design water, energy, shelter and primary production systems underpinned by ecological knowledge. Graduates can be employed by engineering firms, land developers, utilities, international development and government agencies to design and manage engineered systems. Graduates will have a global perspective and ethical approach to sustainable development.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. Students who do not have the necessary background in WACE Chemistry, Mathematics and Physics may take longer than four years to complete this course. Articulation from TAFE is encouraged.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Special Requirements:**

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Engineering Academic Chair.

### **Employment Prospects:**

Graduates will be in high demand in energy and water utilities, and in companies and consulting agencies servicing this sector. Moreover, government departments are significant employers of graduates.

### **Professional Recognition:**

Graduates of accredited engineering courses are eligible for Graduate Membership of Engineers Australia. Full Chartered Professional Engineer status can then be achieved after a further three to five years of work experience in the engineering profession.

### **Main Research Areas:**

Total water cycle management, energy efficiency, permaculture, sustainable construction, organic waste management.

## **Course Prerequisites**

### **Chemistry Background**

Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in Chemistry within the past three years.

Chemistry 3A/3B or Chemistry ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D) within the past three years.

Students without this background will need to complete:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Physics Background**

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics within the past three years.

WACE Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

## **Course Structure - 96 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

##### **Breadth Unit for Degree - 3 credit points**

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

##### **Core Units - 18 credit points**

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points

MURDOCH: S2-internal

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

## Part II - 72 credit points

### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Year 2 - 21 credit points

#### Research Skills Unit - 3 credit points

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

#### Core Units - 18 credit points

ENG221 Pollution and its Control - 3 points  
MURDOCH: S1-internal, S1-external

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

ENG203 Heat and Mass Transfer - 3 points  
MURDOCH: S2-internal, S2-external

ENG202 Engineering Thermodynamics - 3 points  
MURDOCH: S1-internal, S1-external

ENG201 Fluid Mechanics - 3 points  
MURDOCH: S2-internal, S2-external

### Year 3 - 24 credit points

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

#### Research Skills Unit - 3 credit points

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

#### Core Units - 21 credit points

ENV243 Water and Earth Science - 3 points  
MURDOCH: S1-internal, S1-external

ENG343 Water Treatment Operations - 3 points  
MURDOCH: S2-internal

ENG342 BioEnergy and Resource Recovery - 3 points  
<span data-type="offering" data-unit="ENG342">MURDOCH: S2-internal, S2-external (closed)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

ENG338 Energy Supply and Management - 3 points  
MURDOCH: S1-internal

ENG300 Environmental Technology for Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### Year 4 - 24 credit points

#### Core Units - 21 credit points

ENG452 Environmental Engineering Design - 3 points

MURDOCH: S1-internal

ENG459 Sustainable Urban Water Systems - 3 points  
MURDOCH: S1-internal

ENG441 Solar Thermal and Biomass Engineering - 3 points  
MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal</span>

### Specified Electives - 3 credit points

Select from the following:

ENG456 Hazard, Safety and Environmental Management - 3 points  
MURDOCH: S1-internal

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

ENG308 Advanced Process and Instrumentation Engineering - 3 points  
MURDOCH: S1-internal

ENG335 Reactor Engineering - 3 points  
MURDOCH: S1-internal, S1-external

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

## INDUSTRIAL COMPUTER SYSTEMS ENGINEERING HONOURS (BE(HONS))

School of Engineering and Information Technology

*Bachelor of Engineering Honours (BE(Hons)) in Industrial Computer Systems Engineering*

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Industrial Computer Systems Engineering is concerned with the use and application of computing technologies (hardware and software) in the operation of modern industrial plants, manufacturing processes and material processing industries, particularly computer based measurement and control. This course provides a graduate with a unique blend of skills in computing and software development, and the skills to design, commission and test complex industrial control systems.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements. It is recommended that students have completed the equivalent of WACE Mathematics 3C/3D, WACE Mathematics: Specialist 3C/3D, WACE Physics 3A/3B and WACE Chemistry 3A/3B. Students who do not have the necessary Mathematical and Physics prerequisite knowledge may take an extra semester to complete their studies.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Engineering Academic Chair.

**Employment Prospects:**

An extremely wide range of opportunities are available in both the commercial and industrial sectors covering information technology, manufacturing, medical, mining, processing, energy supply, communications, electronics, computer systems and defence-related industries to name a few.

**Professional Recognition:**

Graduates of accredited engineering courses are eligible for graduate membership of Engineers Australia. Full Chartered Professional Engineer status can then be achieved after a further three to five years of work experience in the engineering profession.

**Major Prerequisites****Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Physics Background**

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics 3A/3B (or equivalent) within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Course Structure - 96 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

**Breadth Unit for Degree - 3 credit points**

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

**Core Units - 18 credit points**

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points  
MURDOCH: S2-internal

MAS161 Calculus and Matrix Algebra - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG125 Circuits and Systems I - 3 points

MURDOCH: S2-internal

**Part II - 72 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

**Core Units - 18 credit points**

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENG294 Discrete Time Systems - 3 points  
MURDOCH: S2-internal, SUM-internal, U-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

**Year 3 - 24 credit points**

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

**Research Skills Unit - 3 credit points**

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

**Core Units - 12 credit points**

ENG311 PLC Systems - 3 points  
MURDOCH: S1-internal

ENG319 Real Time and Embedded Systems - 3 points  
MURDOCH: S2-internal

ENG321 Instrument and Communication Systems - 3 points  
MURDOCH: S2-internal

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Specified Electives - 9 credit points**

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

**Year 4 - 24 credit points****Core Units - 18 credit points**

ENG447 Industrial Computer Systems Design - 3 points  
MURDOCH: S1-internal

ENG448 SCADA and Systems Architecture - 3 points

MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH:  
DE2-internal (closed), H-internal, S1-internal, WU3-internal,  
Y-internal</span>

### **Specified Electives - 6 credit points**

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

## **INSTRUMENTATION AND CONTROL ENGINEERING HONOURS (BE(HONS))**

School of Engineering and Information Technology

Bachelor of Engineering Honours (BE(Hons)) in Instrumentation and Control Engineering

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)

Instrumentation and Control Engineering is concerned with the design, construction, testing and management of tools and equipment for monitoring, control and performance assessment of a wide range of manufacturing and industrial processes. Areas of application will cover virtually all processes that require specialised control and monitoring systems. Often, such automation systems are computer based. Particular emphasis is placed on applications in mining, chemical and mineral processing industries and in other processing sectors.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. It is recommended that students have completed the equivalent of WACE Mathematics 3C/3D, WACE Mathematics: Specialist 3C/3D, WACE Physics 3A/3B and WACE Chemistry 3A/3B. Students who do not have the necessary Mathematical and Physics prerequisite knowledge may take an extra semester to complete their studies.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Special Requirements:**

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Engineering Academic Chair.

### **Employment Prospects:**

An extremely wide range of opportunities are available in both the commercial and industrial sectors covering information technology, manufacturing, medical, mining, processing, energy supply, communications, electronics, computer systems and defence-related industries to name a few.

### **Professional Recognition:**

Graduates of accredited engineering courses are eligible for graduate membership of Engineers Australia. Full Chartered Professional Engineer status can then be achieved after a further three to five years of work experience in the engineering profession.

## **Major Prerequisites**

### **Mathematics Background**

Students may need to complete one prerequisite unit depending

on their background in mathematics with either a C grade in Mathematics Specialist ATAR or (Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Physics Background**

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics 3A/3B (or equivalent) within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

## **Course Structure - 96 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

##### **Breadth Unit for Degree - 3 credit points**

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

##### **Core Units - 18 credit points**

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points  
MURDOCH: S2-internal

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG125 Circuits and Systems I - 3 points  
MURDOCH: S2-internal

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

### **Part II - 72 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal



**Core Units - 18 credit points**

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENG294 Discrete Time Systems - 3 points  
MURDOCH: S2-internal, SUM-internal, U-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

**Year 3 - 24 credit points**

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

**Research Skills Unit - 3 credit points**

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

**Core Units - 12 credit points**

ENG308 Advanced Process and Instrumentation Engineering - 3 points  
MURDOCH: S1-internal

ENG309 Process Control Engineering I - 3 points  
MURDOCH: S1-internal

ENG322 Process Control Engineering II - 3 points  
MURDOCH: S2-internal

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Specified Electives - 9 credit points**

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

**Year 4 - 24 credit points****Core Units - 18 credit points**

ENG445 Instrumentation and Control Systems Design - 3 points  
MURDOCH: S1-internal

ENG446 Process Control and Safety Systems - 3 points  
MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal</span>

**Specified Electives - 6 credit points**

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

**RENEWABLE ENERGY ENGINEERING HONOURS (BE(HONS))**

School of Engineering and Information Technology

Bachelor of Engineering Honours (BE(Hons)) in Renewable Energy Engineering

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Renewable Energy Engineering focuses on the use of sources of energy which do not result in long term reduction, or loss, of our earth's resources. It is concerned with developing efficient means of tapping these energy sources and transforming the energy into useful forms that can be easily used for the full range of domestic and industrial applications. Graduates will be expected to design, commission and test a wide range of renewable energy systems, including solar thermal, photovoltaic, wind based and biomass systems.

The course requires an in-depth study of a range of mathematics, computing and engineering fundamentals, combined with a full range of studies in the necessary specialist subject areas. This is complemented by studies in management, accounting, economics and law.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. It is recommended that students have completed the equivalent of Mathematics 3C/3D, Mathematics: Specialist 3C/3D, Physics 3A/3B and Chemistry 3A/3B. Students who do not have the necessary Mathematical and Physics prerequisite knowledge may take an extra semester to complete their studies.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Engineering Academic Chair.

**Employment Prospects:**

An extremely wide range of opportunities are available in both the commercial and industrial sectors covering information technology, manufacturing, medical, mining, processing, energy supply, communications, electronics, computer systems and defence-related industries to name a few.

**Professional Recognition:**

Graduates of accredited engineering courses are eligible for graduate membership of Engineers Australia. Full Chartered Professional Engineer status can then be achieved after a further three to five years of work experience in the engineering profession.

**Course Prerequisites****Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete: MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### Physics Background

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics 3A/3B (or equivalent) within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

## Course Structure - 96 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

##### Breadth Unit for Degree - 3 credit points

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

##### Core Units - 18 credit points

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points  
MURDOCH: S2-internal

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG125 Circuits and Systems I - 3 points  
MURDOCH: S2-internal

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

### Part II - 72 credit points

#### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

##### Core Units - 18 credit points

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENG294 Discrete Time Systems - 3 points  
MURDOCH: S2-internal, SUM-internal, U-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

#### Year 3 - 24 credit points

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

#### Research Skills Unit - 3 credit points

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

#### Core Units - 12 credit points

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

ENG337 Applied Photovoltaics - 3 points  
MURDOCH: S2-internal

ENG339 Wind and Hydro Power Systems - 3 points  
MURDOCH: S2-internal

ENG338 Energy Supply and Management - 3 points  
MURDOCH: S1-internal

#### Specified Electives - 9 credit points

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

#### Year 4 - 24 credit points

##### Core Units - 18 credit points

ENG442 Renewable Energy Systems Engineering - 3 points  
MURDOCH: S1-internal

ENG441 Solar Thermal and Biomass Engineering - 3 points  
MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal</span>

#### Specified Electives - 6 credit points

In order to obtain professional accreditation, students must take units that are acceptable to Engineers Australia. Select from units at Part II from the other Engineering majors or other Part II units with permission of the Engineering Academic Chair.

## ENGINEERING TECHNOLOGY

### See also:

Engineering

## ENGINEERING TECHNOLOGY (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Engineering Technology

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

The approach of the technologist is, wherever possible, to use and adapt 'off the shelf' building blocks and components to create and/or modify the required software and/or hardware. In this degree students are free to choose from a range of units; however, there are four key areas of study:

**Industrial Computer Systems:** concerned with the specification, design, implementation and commissioning of industrial control systems. It is a combination of both computer hardware and software to meet the requirements of the industrial measurement and control application.

**Instrumentation and Control:** concerned with instrumentation installation, specification, systems monitoring and operational control of a wide range of manufacturing and process oriented industries.

**Electrical Power:** associated with power system elements including power generators, transmission and distribution system components as well as power system analysis, operation and control.

**Renewable Energy Systems:** concerned with the study and use of renewable energy technologies and energy sources with an emphasis on electrical generation.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. It is recommended that students have completed the equivalent of WACE Mathematics 3C/3D, Mathematics: Specialist 3C/3D and WACE Physics 3A/3B. Students who do not have the necessary Mathematical and Physics prerequisite knowledge may take an extra semester to complete their studies.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This degree offers study suitable for graduates to enter a wide range of engineering and applied science careers as Engineering Technologists. Depending on the specific units chosen, graduates may pursue careers in industries associated with computing and information technology, industrial computer systems, instrumentation and control.

**Advanced Standing:**

This major is designed to admit students either through direct entry to the University, or via TAFE. Students who have completed appropriate TAFE qualifications may be admitted directly into the second year of the major.

Upon successful completion of this course, it is possible with one further year of study to upgrade to a Bachelor of Engineering Honours degree. It should be noted that if a sufficient level of performance is achieved in the first year, it is also possible to transfer into the Engineering course in the second year of study.

**Major Prerequisites****Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or

a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Physics Background**

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in Physics 3A/3B (or equivalent) within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG125 Circuits and Systems I - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information**

**Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 12 credit points**

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

Plus one unit from each of the following Groups.

**Group 1**

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

**Group 2**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

**Group 3**

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

ENG294 Discrete Time Systems - 3 points  
MURDOCH: S2-internal, SUM-internal, U-internal

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information**

**Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 6 credit points**

Select one unit from Group 4 and one unit from Group 5.

**Group 4**

ENG308 Advanced Process and Instrumentation Engineering - 3 points  
MURDOCH: S1-internal

ENG311 PLC Systems - 3 points  
MURDOCH: S1-internal

ENG317 Electromechanical Energy Conversion - 3 points  
MURDOCH: S1-internal

ENG309 Process Control Engineering I - 3 points  
MURDOCH: S1-internal

ENG318 Power Electronic Converters and Systems - 3 points  
MURDOCH: S1-internal

ENG337 Applied Photovoltaics - 3 points  
MURDOCH: S2-internal

**Group 5**

ENG323 Power Transmission and Distribution Networks - 3 points  
MURDOCH: S2-internal

ENG319 Real Time and Embedded Systems - 3 points  
MURDOCH: S2-internal

ENG339 Wind and Hydro Power Systems - 3 points  
MURDOCH: S2-internal

ENG338 Energy Supply and Management - 3 points  
MURDOCH: S1-internal

ENG321 Instrument and Communication Systems - 3 points  
MURDOCH: S2-internal

ENG322 Process Control Engineering II - 3 points  
MURDOCH: S2-internal

**General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

## ENGLISH AND CREATIVE WRITING

### ENGLISH AND CREATIVE WRITING (BA)

School of Arts

Bachelor of Arts (BA) in English and Creative Writing

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

English and Creative Writing offers students excellent opportunities to develop critical, conceptual and creative skills in order to become incisive thinkers, adept readers and imaginative writers. Students engage with a wide range of literary, theoretical, dramatic, and other texts, from the Renaissance to the present day, enabling them to hone their capacity for reflection and analysis. They will develop the ability to write a diverse range of literary and related genres. Upon completion of the major, graduates will be skilled in methods of critical analysis and argument; fluent in oral and written expression; and confident in their ability to undertake critical and/or creative work.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

Depending on the particular make-up of the degree, graduates in English and Creative Writing would be well prepared for employment in several of the following professions: advertising, design, teaching, public administration, journalism, publishing, computer arts, and many fields of business.

#### Recommended Double Majors:

History; Philosophy; Theatre and Drama

#### Excluded Minors:

Creative Writing

#### Languages and Writing Skills:

English and Creative Writing students are strongly encouraged to study another language, such as Indonesian, Japanese, Biblical Hebrew and New Testament Greek, all offered by Murdoch University, or another language studied cross-institutionally. Students are also encouraged to include a writing unit in their selection of a general elective at either Part I or Part II.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

EGL121 Turning Points in Literature - 3 points  
MURDOCH: S1-internal, S1-external

EGL122 Writing and Creativity - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 12 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Unit - 3 credit points

EGL252 Great Books Past and Present 1 - 3 points  
MURDOCH: S1-internal, S1-external

##### Specified Electives - 6 credit points

Select from the Specified Elective Unit List below.

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and



minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Unit - 3 credit points

EGL345 Great Books Past and Present 2 - 3 points  
MURDOCH: S2-internal, S2-external

#### Specified Electives - 6 credit points

Select from the Specified Elective Unit List below.

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Specified Elective Unit List

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

EGL220 Project in Creative Writing - 3 points  
MURDOCH: S1-internal, S1-external

EGL233 Telling True Stories - 3 points  
MURDOCH: S1-internal

EGL346 Literary Theory - 3 points  
Not available this year

EGL232 Professional Writing and Editing - 3 points  
MURDOCH: S2-internal

EGL230 Popular Literature and Science Fiction - 3 points  
MURDOCH: S2-internal, S2-external

EGL235 Australian Literature and Film - 3 points  
MURDOCH: S1-internal, S1-external

EGL344 Sonnet to Song: Understanding Poetry - 3 points  
MURDOCH: S2-internal, S2-external

EGL343 Contemporary Fiction Writing - 3 points  
MURDOCH: S1-internal, S1-external

EGL348 Shakespeare - 3 points  
MURDOCH: S2-internal, S2-external

---

## ENGLISH AND CREATIVE WRITING HONOURS (BA(HONS))

School of Arts

Bachelor of Arts Honours (BA(Hons)) in English and Creative Writing

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the

theoretical, conceptual and practical framework of their discipline, and to develop skills for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Course Structure - 24 credit points

#### Coursework - 12 credit points

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

EGL569 Honours Dissertation Preliminary - 3 points  
MURDOCH: S1-internal

EGL591 Honours Topic in English and Creative Writing - 3 points  
MURDOCH: S1-internal

#### Thesis - 12 credit points

EGL599 Honours Thesis in English and Creative Writing - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

---

## ENVIRONMENTAL MANAGEMENT

#### See also:

Environmental Science

---

### ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY (BSC)

School of Veterinary and Life Sciences

Bachelor of Science (BSc) in Environmental Management and Sustainability

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: Enrolment is subject to restriction due to constraints on unit enrolments.

#### Parent Major:

Bachelor of Science (Non-IT Majors)

The Environmental Management and Sustainability major explores the complex interactions between humans and their environment. The major not only integrates the environmental sciences and their human dimensions, but also translates that science into practical and effective management actions, to improve local, regional and global sustainability. This major emphasises multi-disciplinary problem solving and practical experience to tackle current and future environmental management and sustainability challenges.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical

experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken WACE Chemistry 3A/3C and Mathematics 2C/2D.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course can be completed internally or externally. External students will be required to attend classes on-campus for some units.

#### **Employment Prospects:**

Environmental Management and Sustainability graduates have a wide range of employment opportunities in the public and private sectors from mining rehabilitation to consulting, urban planning, eco-tourism, parks and wildlife management, sustainable development, land and water management, waste and environmental services, science education and communication. Employment opportunities are likely to be enhanced for graduates who continue into either Research Honours or the Graduate Certificate in Environmental Assessment and Management or Graduate Certificate or Diploma in Environmental Science.

#### **Recommended Double Majors:**

Conservation and Wildlife Biology; Environmental Science; Marine Science

#### **Recommended Minors:**

Ecosystem Management; Marine Biology; Sustainability, Ecosystems and Community Development; Sustainable Development; Waste and Water Management

#### **Excluded Minors:**

Environmental Issues; Resource Management

#### **Main Research Areas:**

Ecosystem management and restoration, technologies and policies for sustainable development.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 12 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

SUS100 Introduction to Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 6 credit points**

ENV246 Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

ENV245 Global and Regional Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

##### **General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 12 credit points**

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENV331 Environmental Management - 3 points  
MURDOCH: S2-internal, S2-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Recommended for General Elective points only: ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points

<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

#### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## **ENVIRONMENTAL MANAGEMENT AND SUSTAINABILITY HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Environmental Management and Sustainability*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Thesis - 21 credit points**

VLS545 Honours Thesis in Environmental Management and Sustainability - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## **ENVIRONMENTAL SCIENCE**

#### **See also:**

Environmental Management  
Marine Science

---

## **ENVIRONMENTAL SCIENCE (BSC)**

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Environmental Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Science (Non-IT Majors)

Environmental Science is a multidisciplinary field that seeks to understand the interrelationships between air, land, water, plants, animals and human society. This understanding is essential to develop successful management strategies and address the challenges arising from interactions between humans and their environment. You will develop capacity in scientific method, knowledge, and problem solving which will enable you to identify and resolve current and future environmental issues. This major emphasises hands-on experience through field work, laboratory and research training, and policy and management.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken WACE Chemistry 3A/3C and Mathematics 2C/2D.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course can be completed internally or externally. External students will be required to attend classes on-campus for some units.

#### **Employment Prospects:**

Environmental Science graduates have a wide range of employment opportunities in the areas of climate change, restoration, natural resource management and development, environmental education, policy and planning in consulting firms, government or industry both in Australia and overseas. Employment opportunities are likely to be enhanced for graduates who continue into either Research Honours or the Graduate Certificate in Environmental Assessment and Management or Graduate Certificate or Diploma in Environmental Science.

#### **Recommended Double Majors:**

Conservation and Wildlife Biology; Environmental Management and Sustainability; Marine Science

#### **Recommended Minors:**

Environmental Issues; Marine Biology; Resource Management; Waste and Water Management

#### **Excluded Minors:**

Ecosystem Management

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Core Units - 9 credit points**

ENV242 Atmospheric Science - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

ENV243 Water and Earth Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Core Units - 9 credit points**

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

ENV331 Environmental Management - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Research Skills Unit List**

##### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

##### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal



BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

### Engineering Technology Major

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### Mineral Science Major

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### Marine Biology Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## ENVIRONMENTAL SCIENCE HONOURS (BSC(HONS))

School of Veterinary and Life Sciences

Bachelor of Science Honours (BSc(Hons)) in Environmental Science

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the Dean of School. Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Thesis - 21 credit points

VLS550 Honours Thesis in Environmental Science - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## EXERCISE PHYSIOLOGY

### See also:

Chiropractic  
Sports Science

---

## CLINICAL EXERCISE PHYSIOLOGY (BSC+GRADDIPCLINEXPHYS)

School of Psychology and Exercise Science

Bachelor of Science (BSc) + Graduate Diploma in Clinical Exercise Physiology (GradDipClinExPhys)

Course Codes: B1336

Duration: 4 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

• This course is not available to International students studying in Australia.

*Restriction: Enrolment is subject to restriction due to limited equipment and facilities, professional recognition requirements, and competitive admission requirements.*

Exercise Physiology is an allied health profession that focuses on the delivery of exercise, lifestyle, and behavioural modification programs for the prevention and management of chronic disease and injury. Graduates will also possess the skills required to work within Sports Medicine teams to rehabilitate athletes of all levels. Throughout the first three years of your degree you will develop both theoretical and practical skills within exercise physiology, biomechanics, skill acquisition, sport and exercise psychology as well as exercise programming and prescription. Within your final year you will refine these skills to enable you to provide physical activity and behavioural programs for clients with conditions as diverse as cardiovascular disease, diabetes, osteoporosis, depression, cancer, arthritis, respiratory disease and many others. Clinical skills are taught through evidence-based lecture and tutorials and applied in real life clinical settings. The Murdoch Clinical Exercise Physiology program allows students to graduate with both an undergraduate (Bachelor of Science) and postgraduate (Graduate Diploma in Clinical Exercise Physiology) degree in four years following a single entry point. This program aligns with our currently accredited four-year undergraduate Exercise Physiology degree which allows accreditation through Exercise and Sports Science Australia as both an Accredited Exercise Scientist as well as an Accredited Exercise Physiologist.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Health setting: hospitals and medical clinics. Private employment: self-employed practitioner.

**Professional Accreditation:**

Exercise and Sports Science Australia (ESSA): Exercise Physiology.

**Professional Recognition:**

Accredited Exercise Physiologist.

**Additional Academic Progress Requirements:**

In order to continue in the integrated award (BSc + Grad Dip Clinical Exercise Physiology), students must maintain a minimum course GPA of 2.0. This will be reviewed following each semester after completing the first 24 points of study. Students failing to maintain the GPA of 2.0 will be transferred into B1317 BSc (Sport and Health Science, Movement Science).

**Main Research Areas:**

Exercise Physiology; Rehabilitation: Metabolic, Cardiovascular, Musculoskeletal, Neuromuscular

**Course Structure - 96 credit points**

**Movement Science + Sport and Health Science (BSc)**

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

EXS124 Introduction to Sports Science - 3 points  
MURDOCH: S1-internal

EXS103 Strength and Resistance Training - 3 points  
MURDOCH: S2-internal

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

EXS102 Human Physiology - 3 points  
MURDOCH: S2-internal

PSY172 Introduction to Psychological Health and Wellbeing - 3 points  
MURDOCH: S2-internal

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

**Part II - 48 credit points**

**Year 2**

**University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Research Skills Unit - 3 credit points**

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**Core Units - 18 credit points**

EXS201 Sport and Exercise Psychology - 3 points  
MURDOCH: S1-internal

EXS202 Exercise Physiology I - 3 points  
MURDOCH: S1-internal

EXS203 Health, Fitness and Performance Assessment - 3 points  
MURDOCH: S1-internal

EXS204 Biomechanics I - 3 points  
MURDOCH: S2-internal

EXS206 Functional Human Anatomy - 3 points  
MURDOCH: S1-internal

EXS205 Acquisition of Skills and Motor Control - 3 points  
MURDOCH: S2-internal

**Year 3**

**Research Skills Unit - 3 credit points**

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**Core Units - 21 credit points**

EXS306 Physical Assessment and Rehabilitation - 3 points  
MURDOCH: S1-internal

EXS305 Advanced Skills and Motor Control - 3 points  
MURDOCH: S1-internal

EXS304 Biomechanics II - 3 points  
MURDOCH: S2-internal

EXS302 Exercise Physiology II - 3 points  
MURDOCH: S2-internal

EXS301 Advanced Sport and Exercise Psychology - 3 points  
MURDOCH: S2-internal

EXS303 Exercise, Programming and Prescription - 3 points  
MURDOCH: S1-internal

EXS309 Exercise Science Practicum - 3 points  
MURDOCH: H-placement, Y-placement

---

### **Clinical Exercise Physiology (GradDipClinExPhys)**

#### **Course Structure - 24 credit points**

#### **Part II - 24 credit points**

#### **Year 4 - 24 credit points**

##### **Core Units - 24 credit points**

EXS503 Neuromuscular Rehabilitation - 3 points  
MURDOCH: T2-internal

EXS502 Metabolic Rehabilitation - 3 points  
MURDOCH: T2-internal

EXS501 Cardiopulmonary Rehabilitation - 3 points  
MURDOCH: T1-internal

EXS504 Advanced Topics in Exercise Physiology - 3 points  
MURDOCH: T3-internal

EXS509 Exercise Physiology Practicum - 6 points  
<span data-type="offering" data-unit="EXS509">MURDOCH:  
Y1-placement (quota of 40 places)</span>

EXS590 Research Methods for Exercise Science - 3 points  
MURDOCH: T3-internal

EXS505 Clinical Research in Exercise Physiology - 3 points  
MURDOCH: Y1-internal

#### **Additional Academic Progress Requirements**

In order to continue in the integrated award (BSc + Grad Dip Clinical Exercise Physiology), students must maintain a minimum course GPA of 2.0. This will be reviewed following each semester after completing the first 24 points of study. Students failing to maintain the GPA of 2.0 will be transferred into B1317 BSc (Sport and Health Science, Movement Science).

---

### **EXERCISE PHYSIOLOGY HONOURS (BSC(HONS))**

School of Psychology and Exercise Science

*Bachelor of Science Honours (BSc(Hons)) in Exercise Physiology*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average; subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

#### **Course Structure - 24 credit points**

#### **Coursework - 9 credit points**

EXS691 Research Methods in Exercise and Rehabilitation Sciences - 9 points  
MURDOCH: S1-internal

#### **Thesis - 15 credit points**

EXS560 Honours Thesis in Exercise Physiology - 15 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## **EXTRACTIVE METALLURGY**

#### **See also:**

Mineral Science

---

### **CHEMICAL AND METALLURGICAL ENGINEERING HONOURS (BE(HONS))**

School of Engineering and Information Technology

*Bachelor of Engineering Honours (BE(Hons)) in Chemical and Metallurgical Engineering*

Course Codes: H1264

Duration: 4 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

Extractive Metallurgists are expected to understand the fundamental science of mineral extraction processes and engineering aspects, and operate in an engineering environment, working in the design, commissioning and operation of metallurgical plants.

This course provides training in the core areas of extractive metallurgy: mineral processing, pyrometallurgy, hydrometallurgy and process mineralogy. Units in process control and instrumentation, modelling and simulation, financial management and process economics, and environmental and operational management are included in this course.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

It is recommended that students entering this major to have completed WACE Chemistry 3A/3B, Physics 3A/3B and Mathematics: Specialist 3C/3D.

Applicants having other backgrounds will be considered for admission, but may need make-up units in first year, and therefore may need more than one year to complete Part I.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Students enrolling in units that have a practical component must make allowance for on-campus attendance to complete the practical work. The on-campus sessions for external students are generally held in a one-week block for each unit; the dates are published in each unit guide.

All students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained,

in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and be approved by the Chemical and Metallurgical Engineering Academic Chair.

#### **Employment Prospects:**

The degree will allow graduates to work in the mineral resources and allied industries including oil and gas, broader chemical engineering field, mineral processing and process consulting. Specific job opportunities include Extractive/General Metallurgist; Mineral Processing Engineer; Hydrometallurgist; Pyrometallurgist; Consulting Metallurgy/Mineral Processing; Research Metallurgy/Mineral Processing; Chemical/Process Engineer.

#### **Professional Accreditation:**

Recognised by the Australasian Institute of Mining and Metallurgy. Provisional accreditation by Engineers Australia.

#### **Professional Recognition:**

Graduates are eligible for professional membership of the Australasian Institute of Mining and Metallurgy.

#### **Main Research Areas:**

Hydrometallurgy, mineral processing, pyrometallurgy, process mineralogy, minerals chemistry.

### **Course Prerequisites**

#### **Chemistry Background**

Students may need to complete prerequisite units depending on their background in chemistry and their final scaled score in Chemistry ATAR within the past three years.

Chemistry ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry not stated above should consult the Academic Chair for clarification of their enrolment requirements.

#### **Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D) or a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) within the past three years.

Students without this background will need to complete as a bridging unit:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

#### **Physics Background**

Students may need to complete prerequisite units depending on their background in physics and their final scaled score in Physics 3A/3B within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics studies not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 96 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BEN100 Transitioning into Engineering - 3 points  
MURDOCH: S1-internal, S2-internal

##### **Breadth Unit for Degree - 3 credit points**

BEN150 Design Concepts in Engineering - 3 points  
MURDOCH: S1-internal

##### **Core Units - 18 credit points**

ENG193 Introduction to the Minerals Industry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG109 Engineering Computing Systems - 3 points  
MURDOCH: S2-internal

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Part II - 72 credit points**

##### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Year 2 - 21 credit points**

##### **Core Units - 21 credit points**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

ENG202 Engineering Thermodynamics - 3 points  
MURDOCH: S1-internal, S1-external

ENG205 Process Mineralogy - 3 points  
MURDOCH: S1-internal, S1-external

ENG298 Principles of Process Engineering - 3 points  
MURDOCH: S1-internal

ENG201 Fluid Mechanics - 3 points  
MURDOCH: S2-internal, S2-external

ENG203 Heat and Mass Transfer - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

##### **Year 3 - 24 credit points**

All Engineering students will undertake at least 500 hours of approved work experience, plus complete a report outlining the experience gained, in order to complete the requirements of the degree. This work experience must be in a suitable engineering-related area and must be approved by the Engineering Academic Chair.

##### **Research Skills Unit - 3 credit points**

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

### **Core Units - 21 credit points**

ENG328 Mineral Processing I - 3 points  
MURDOCH: S1-internal, S1-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

ENG335 Reactor Engineering - 3 points  
MURDOCH: S1-internal, S1-external

ENG325 Pyrometallurgy - 3 points  
MURDOCH: S1-internal, S1-external

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

ENG329 Mineral Processing II - 3 points  
MURDOCH: S2-internal, S2-external

ENG326 Hydrometallurgy - 3 points  
MURDOCH: S2-internal, S2-external

### **Year 4 - 24 credit points**

#### **Research Skills Unit - 3 credit points**

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

#### **Core Units - 21 credit points**

ENG457 Engineering Design Project - 6 points  
MURDOCH: S2-internal

ENG456 Hazard, Safety and Environmental Management - 3 points  
MURDOCH: S1-internal

ENG470 Engineering Honours Thesis - 12 points  
<span data-type="offering" data-unit="ENG470">MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal</span>

## **FINANCE**

### **FINANCE (BBUS)**

School of Business and Governance

*Bachelor of Business (BBus) in Finance*

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### **Parent Major:**

Bachelor of Business

Students doing the Finance major will cover a broad range of areas in corporate finance, treasury management, investment analysis and international finance. These are designed to equip them with the necessary skills to obtain employment in such areas as stockbroking, insurance and banking as well as preparing them with the skills for careers in finance in public and private sector organisations.

Many issues relevant to the corporate financial manager will be examined including capital investment decisions, cost of capital, sources of funds, dividend policy, working capital management,

efficient capital markets, portfolio management, the use of options, futures, forward exchange contracts and other derivative financial instruments. Students will also receive an introduction to international finance. A fourth year of study is available in the form of an honours year.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

#### **Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Employment Prospects:**

Murdoch Business graduates are equipped with the necessary skills to obtain employment in such areas as stockbroking, insurance and banking. They will also acquire skills for careers in finance in public and private sector organisations.

#### **Professional Recognition:**

Graduates are potentially eligible for associate membership of the Financial Services Institute of Australasia (FINSIA). For advice on specific requirements students should contact FINSIA directly.

#### **Recommended Double Majors:**

Accounting; Banking; Economics; Hospitality and Tourism Management; Human Resources Management; International Business; Management; Marketing

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS170 Foundations of Accounting - 3 points  
MURDOCH: S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

##### **General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BSL201 Finance Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS286 Corporate Finance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS288 Treasury Management - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BUS329 Investment Analysis - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

BUS330 International Finance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS333 Derivative Securities - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH:

S1-internal (quota of 50 places)</span>

---

**FINANCE HONOURS (BBUS(HONS))**

School of Business and Governance

Bachelor of Business Honours (BBus(Hons)) in Finance

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points****Core Units - 9 credit points**

MBS516 Advanced Honours Topic A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
MURDOCH: S1-internal, S2-internal

**Specified Electives - 3 credit points**

Select from the following:

MBS619 Qualitative Organisational Research - 3 points

MBS659 Quantitative Research for Business - 3 points  
MURDOCH: S1-internal, S1-external

**Thesis - 12 credit points**

MBS519 Honours Thesis - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

---

**FORENSIC BIOLOGY****See also:**

Biomedical Science  
Molecular Biology



## FORENSIC BIOLOGY AND TOXICOLOGY (BSC)

School of Veterinary and Life Sciences

Bachelor of Science (BSc) in Forensic Biology and Toxicology

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

### Parent Major:

Bachelor of Science (Non-IT Majors)

Forensic Biology and Toxicology is concerned with the application of the techniques of molecular biology, biochemistry and analytical chemistry to the fight against crime. This major provides in-depth study of modern molecular genetics, including practical exposure to the techniques associated with human DNA profiling. The major also provides hands-on experience in modern analytical techniques relevant to the detection of legal and illicit drugs, alcohol and homicidal poisons. Illustrative case histories are used extensively throughout the course.

Training is provided by forensic science professionals in forensic pathology; the role of forensic anthropology in human identification; witness imaging; forensic toxicology and in forensic botany with an emphasis on the gathering of forensic evidence and its presentation in Court. Students will receive instruction in the preparation of expert testimony reports relevant to a murder trial. They will be required to deliver the testimony in a moot court and be subjected to cross-examination by Barristers from the DPP.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken ATAR: Chemistry or WACE: Chemistry 3A/3B and at least ATAR: Mathematics Applications or TEE: Discrete Mathematics or WACE: Mathematics 2C/2D. Students not undertaking these recommended subjects will need to take additional units in their first year at university.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

Students undertaking units in Forensic Biology and Toxicology will not be required to kill any vertebrate animal but they will be required to work with fresh tissues from dead animals in certain units. Students will also be exposed to graphic images of homicidal injuries and to human cadavers.

### Employment Prospects:

The establishment of a national DNA database and the increasing emphasis on the monitoring of blood and urine samples for residual alcohol and drugs has seen a significant increase in employment opportunities for forensic biologists and toxicologists, particularly in government Health Departments and in analytical laboratories. The techniques of genetic analysis and analytical chemistry are highly transportable and graduates can also expect to obtain employment in hospitals, research organisations such as the CSIRO and in medical research centres, agriculture departments, food processing companies or in the pharmaceutical industry. Graduates have found employment as Crime Scene Officers with

Police services and as Forensic Biologists with Health Departments. For those wishing to become Crime Scene Officers or Forensic Investigators with police jurisdictions, graduates are strongly recommended to progress to the Master of Forensic Science (Professional Practice) after completion of the Bachelor degree.

### Professional Recognition:

Students are encouraged to combine Forensic Biology and Toxicology with another major such as Biomedical Science, Clinical Laboratory Science, Molecular Biology, Criminology or Chemistry so as to complete a double major. Students who complete the double major in Forensic Biology and Toxicology and Chemistry are eligible for membership of the Royal Australian Chemical Institute (RACI).

### Recommended Double Majors:

Biomedical Science; Chemistry; Clinical Laboratory Science; Criminology; Genetics and Molecular Biology

### Excluded Minors:

Forensic Biology

### Main Research Areas:

Medical, forensic and agricultural genetic analysis; wildlife forensics; ancient DNA reconstruction; crime scene contamination; forensic entomology; molecular toxicology and drug analysis; blood pattern analysis and fingerprinting.

### Major Prerequisites

#### Chemistry Background

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 15 credit points

CHE103 Introduction to Forensic Science - 3 points  
MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

4

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

BMS213 Forensic Anatomy and Anthropology - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information****Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

BIO315 Bodies of Evidence - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List****Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

**Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

**Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

**Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

**FORENSIC BIOLOGY AND TOXICOLOGY HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Forensic Biology and Toxicology*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Thesis - 21 credit points

VLS520 Honours Thesis in Forensic Biology and Toxicology - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## GAMES ART AND DESIGN

### GAMES ART AND DESIGN (BA)

School of Arts

*Bachelor of Arts (BA) in Games Art and Design*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Arts

Currently Australians spend more money on video games than film and television industries combined. The major in Games Art and Design is designed to help students take advantage of this growing global market. Taught by international games production experts, the course will provide students with three pathways to a career in Games Art and Design: Production Art for 3D modelling, animation, and texture painting; Concept Art for 2D illustration and character design; and Game Designers, for level design and construction and high-level game development.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Concept Artist, Technical Artist, Animator, Character Modeller, Game Designer, Environment Modeller, Production Artist, Matte and Texture Painter, Game-Play Tester, Lighting Artist, Level Designer.

**Recommended Double Majors:**

Graphic Design

**Excluded Minors:**

3D Animation

**Main Research Areas:**

Games Art and Design, Games Theory, Graphic Design.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

GAD172 Drawing - 3 points  
MURDOCH: S1-internal, S2-internal

GAD154 Introduction to Games Art and Design - 3 points  
MURDOCH: S2-internal

GAD164 3D Modelling - 3 points  
MURDOCH: S1-internal

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

GAD261 Games Art - 3 points  
MURDOCH: S1-internal

GAD232 Critical Games, Play and Design - 3 points  
MURDOCH: S2-internal

**Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Unit - 3 credit points**

GAD362 Games Project - 3 points  
MURDOCH: S2-internal

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

**Concept Art**

GAD241 Animation - 3 points  
MURDOCH: S1-internal

GAD373 Drawing Studio - 3 points  
MURDOCH: S2-internal

OR

GAD325 Games Art and Design Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

GAD374 Digital Painting - 3 points  
MURDOCH: S1-internal

**Games Design**

ICT288 Games Software Design - 3 points  
MURDOCH: S1-internal, S1-external

GAD375 Games Design Studio - 3 points  
MURDOCH: S1-internal

IDD379 Mobile App and Interaction Design - 3 points

MURDOCH: S1-internal

GAD325 Games Art and Design Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

**Production Art**

GAD241 Animation - 3 points  
MURDOCH: S1-internal

GAD363 Advanced 3D Modelling - 3 points  
MURDOCH: S1-internal

GAD365 3D Animation - 3 points  
MURDOCH: S2-internal

**GAMES ART AND DESIGN HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Games Art and Design

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

GAD567 Honours Topic in Games Art and Design A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

GAD568 Honours Topic in Games Art and Design B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

GAD569 Honours Thesis in Games Art and Design - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## GAMES SOFTWARE DESIGN AND PRODUCTION

### GAMES SOFTWARE DESIGN AND PRODUCTION (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Games Software Design and Production

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Science (IT Majors)

The Games Software Design and Production major prepares and provides students with a thorough understanding of the theory of games software design, development and processes involved in the production of computer, mobile and video games. The required topics include but are not limited to games software design, games mechanics, games software development and production, and interaction design. Students will gain practical experience in the games design and development processes using games development tools.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be some reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

#### Employment Prospects:

The major equips students with a range of problem solving and professional skills which are essential for working in the games (or visualisation) industry. The outcomes of the major can be aligned with Software & Apps Programmer, Systems Analyst, and Analyst Programmer roles listed in the ACS Common ICT Job Profiles & Indicators of Skills Mobility document.

#### Professional Recognition:

This course is accredited at the Professional level with the Australian Computer Society.

#### Recommended Double Majors:

Business Information Systems; Computer Science; Cyber Forensics and Information Security; Games Technology; Internetworking and Network Security; Mobile and Web Application Development

#### Excluded Minors:

Games Design

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

#### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Units - 15 credit points

ICT167 Principles of Computer Science - 3 points  
MURDOCH: S2-internal, S2-external

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

#### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Recommended General Electives

ICT101 Introduction to 3D Graphics and Animation - 3 points  
Not available this year

OR

ICT105 Introduction to Information Technology - 3 points  
MURDOCH: S1-internal, S1-external

### Part II - 48 credit points

#### University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external

##### Core Units - 9 credit points

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external

ICT288 Games Software Design - 3 points  
MURDOCH: S1-internal, S1-external

ICT285 Databases - 3 points  
MURDOCH: S2-internal, S2-external

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Year 3 - 24 credit points

##### Research Skills Unit - 3 credit points



BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

#### **Core Units - 12 credit points**

ICT396 User Interface Design - 3 points  
MURDOCH: S1-internal, S1-external

ICT367 Games Software Production - 3 points  
MURDOCH: S1-internal, S1-external

ICT365 Software Development Frameworks - 3 points  
MURDOCH: S2-internal, S2-external

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Recommended General Electives**

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

---

## **GAMES SOFTWARE DESIGN AND PRODUCTION HONOURS (BSC(HONS))**

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Games Software Design and Production*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 12 credit points**

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

#### **Thesis - 12 credit points**

ICT550 Honours Thesis in Games Software Design and Production - 12 points

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## **GAMES TECHNOLOGY**

### **GAMES TECHNOLOGY (BSC)**

School of Engineering and Information Technology

*Bachelor of Science (BSc) in Games Technology*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Science (IT Majors)

The Games Technology major prepares and provides students with a thorough understanding of the theory, design and programming techniques required for developing games, simulation and visualisation software applications. The required topics include but are not limited to introduction to programming; advanced programming; game engine design and construction; game mechanics; graphics programming; virtual environments; mobile application and multi-user game development; advanced game production using software development tools.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Employment Prospects:**

The major equips students with a broad range of technical, problem solving and professional skills which are essential for working in not just in the games (or visual simulations) but the wider Information Technology industry. The outcomes of the major are aligned with Software & Apps Programmer, Systems Analyst, Analyst Programmer, ICT Consultant, ICT Architect and Software Engineer roles listed in the Australian Computer Society's Common ICT Job Profiles & Indicators of Skills Mobility document.

#### **Professional Recognition:**

This course is accredited at the Professional level with the Australian Computer Society.

#### **Recommended Double Majors:**

Business Information Systems; Computer Science; Cyber Forensics and Information Security; Games Software Design and Production; Internetworking and Network Security; Mobile and Web Application Development

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 15 credit points**

ICT167 Principles of Computer Science - 3 points  
MURDOCH: S2-internal, S2-external

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

#### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Recommended General Electives**

ICT101 Introduction to 3D Graphics and Animation - 3 points  
Not available this year

OR

ICT105 Introduction to Information Technology - 3 points  
MURDOCH: S1-internal, S1-external

### **Part II - 48 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external

##### **Core Units - 9 credit points**

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT290 Games Design and Programming - 3 points  
MURDOCH: S2-internal, S2-external

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 24 credit points**

##### **Research Skills Unit - 3 credit points**

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

#### **Core Units - 12 credit points**

ICT397 Advanced Games Design and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT371 Game Development - 3 points  
MURDOCH: S1-internal, S1-external

ICT398 Virtual Environments for Games and Simulations - 3 points  
MURDOCH: S2-internal, S2-external

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Recommended General Electives**

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

## **GAMES TECHNOLOGY HONOURS (BSC(HONS))**

School of Engineering and Information Technology

Bachelor of Science Honours (BSc(Hons)) in Games Technology

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 12 credit points**

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

#### **Thesis - 12 credit points**

ICT570 Honours Thesis in Games Technology - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## GLOBAL POLITICS AND POLICY

### GLOBAL POLITICS AND POLICY (BA)

School of Business and Governance

Bachelor of Arts (BA) in Global Politics and Policy

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

The global politics and policy major provides an in-depth understanding of political power, public policy, political institutions, ideas and processes, and their transformations around the world at the national and global levels. This major will prepare students to live and work in a globalized environment in which global events influence domestic politics and policy, and vice versa. The major provides our students with the knowledge and skills needed to deal with complex problems in a diverse and interconnected world.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

Graduates are suited to employment in international diplomacy, parliamentary offices, public administration, journalism, teaching, research, advocacy, international business and corporate management.

#### Recommended Double Majors:

Asian Studies; Australian Indigenous Studies; Economics; History; International Aid and Development; Security, Terrorism and Counterterrorism Studies; Security, Terrorism and Counterterrorism Studies (OUA)

#### Recommended Minors:

Asian Studies; Gender Studies; International Aid and Development; Security, Terrorism and Counterterrorism

#### Excluded Minors:

Critical and Human Security; Public Policy; Politics

#### Main Research Areas:

Politics, power, international political economy, globalisation, political theory, democratisation, public policy, global governance, social justice, Australian politics, Asian politics.

#### Languages and Writing Skills:

Global Politics and Policy students are strongly encouraged to

include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek all available at Murdoch.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

POL133 Politics, Power and Policy - 3 points  
MURDOCH: S1-internal, S1-external

POL134 Global Justice - 3 points  
MURDOCH: S2-internal, S2-external

POL161 Understanding International Politics - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

POL228 Democracy and Political Change - 3 points  
MURDOCH: S1-internal, S1-external

POL298 International Political Economy - 3 points  
MURDOCH: S1-internal, S1-external

POL246 Public Policy Analysis - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Recommended General Electives:  
POL237 Terrorism and Political Violence in South Asia - 3 points  
[MURDOCH: S1-internal, S1-external]

POL226 Sex and Gender Matters - 3 points [MURDOCH:  
S2-internal, S2-external]

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 3 credit points**

POL341 Governance and Politics in the 21st Century - 3 points  
MURDOCH: S2-internal, S2-external

#### **Specified Electives - 6 credit points**

Select from the following:

POL331 Democracy in Doubt - 3 points  
MURDOCH: S1-internal, S1-external

POL332 Global Policy and Administration - 3 points  
MURDOCH: S2-internal, S2-external

POL333 Transformations in the Global Order - 3 points  
MURDOCH: S1-internal, S1-external

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Recommended General Electives:

POL334 Middle East Politics and Security - 3 points [MURDOCH:  
S2-internal, S2-external]

POL334 Middle East Politics and Security - 3 points  
MURDOCH: S2-internal, S2-external

POL338 Politics and Security in South-East Asia: Terrorists,  
Gangsters and the State - 3 points [MURDOCH: S2-internal,  
S2-external]

POL340 Public Policy Internship - 6 points [MURDOCH:  
S2-internal, S2-external]

---

## **GRAPHIC DESIGN**

### **GRAPHIC DESIGN HONOURS (BA(HONS))**

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Graphic Design*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

IDD561 Honours Topic in Graphic Design A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

IDD562 Honours Topic in Graphic Design B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

#### **Thesis - 12 credit points**

IDD569 Honours Thesis in Graphic Design - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

---

## **HISTORY**

### **HISTORY (BA)**

School of Arts

*Bachelor of Arts (BA) in History*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Arts

History means making sense of our world by understanding how things come to be the way they are today. History gives us a sense of who we are as individuals and as members of society. The study

of History trains the mind to analyse ideas and theories about human action by looking at the evidence of the past. History is also a discipline which sharpens our critical faculties as well as broadening our understanding of the human condition.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode.

#### **Employment Prospects:**

The study of history promotes generic and applied skills (literary, analytical and communicatory) appropriate to a broad range of careers in both public and private sectors of the economy.

#### **Recommended Double Majors:**

Asian Studies; Global Politics and Policy; Philosophy; Security, Terrorism and Counterterrorism Studies; Security, Terrorism and Counterterrorism Studies (OUA); Sociology

#### **Excluded Minors:**

Modern History

#### **Main Research Areas:**

American, Asian, Australian, British and Pacific history.

#### **Languages and Writing Skills:**

History students are strongly encouraged to include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek all available at Murdoch through the Asian Studies or Theology courses.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 6 credit points**

HIS181 Introduction to History - 3 points  
MURDOCH: S1-internal, S1-external

HIS182 Making of the Modern World - 3 points  
MURDOCH: S2-internal, S2-external

##### **General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a

second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Unit - 3 credit points**

HIS200 The Empire Strikes Back: Imperialism and Colonialism in Modern History - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Unit - 3 credit points**

HIS300 Creating History - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

##### **Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

Units will normally be available at least once every two years.

In addition, Special Topics are available from time to time and may be used as a Specified Elective. Students should consult the Academic Chair to confirm the offering in any particular year.

HIS250 Hollywood and History - 3 points  
Not available this year

HIS302 Vision Splendid: An Alternative History of Australia - 3 points  
Not available this year

HIS324 Cold War 1945 - 1991: A Global History - 3 points  
MURDOCH: S2-internal, S2-external

HIS259 Europe Under the Dictators - 3 points  
Not available this year

HIS310 Modern Japan - 3 points  
Not available this year

HIS257 Spies, Saboteurs and Secret Agents - 3 points  
MURDOCH: S1-internal, S1-external

HIS258 Soldiers and Civilians: War in the Pacific 1941-1945 - 3 points  
MURDOCH: S2-internal, S2-external

HIS334 Peasants, Rebels and Leviathan: Modern Southeast Asian History - 3 points  
MURDOCH: S1-internal, S1-external

HIS204 Crime and Punishment Since 1700 - 3 points  
Not available this year

HIS305 The Vietnam Wars - 3 points  
Not available this year

## HISTORY HONOURS (BA(HONS))

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in History*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

HIS563 Honours Seminar in History - 3 points  
MURDOCH: S1-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

HIS511 Honours Topic in History - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### Thesis - 12 credit points

HIS519 Honours Thesis in History - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## HOSPITALITY AND TOURISM MANAGEMENT

### HOSPITALITY AND TOURISM MANAGEMENT (BBUS)

School of Business and Governance

*Bachelor of Business (BBus) in Hospitality and Tourism Management*

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
- Some units only: Murdoch campus (external) (all but one unit)

### Parent Major:

Bachelor of Business

A Bachelor of Business (Hospitality and Tourism Management) will provide students with a body of knowledge that includes the understanding of business management principles and contemporary developments in Hospitality and Tourism Management. This degree provides students with core business skills in business management, and the legal framework of business, combined with a broad knowledge base of the contemporary issues within the hospitality and tourism industry.

Students will have knowledge of how research principles and methods inform business decision-making after completing this degree. Graduates will demonstrate the application of knowledge and skills via the planning and completion of significant research-based or scholarship-centred projects.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

### Admission Requirements (Offshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

Tourism industry such as tour operators, accommodation outlets and resorts; travel wholesalers and retailers, NGOs and government agencies.

**Recommended Double Majors:**

Accounting; Banking; Economics; Finance; Human Resources Management; International Business; Management; Marketing

**Excluded Minors:**

Human Resources Management

**Main Research Areas:**

Management, tourism.

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

TOU101 Introduction to Tourism Systems - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BSL204 Tourism and Hospitality Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS293 Organisational Theory and Behaviour - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

TOU221 Sustainable Tourism - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BUS349 Strategic Management - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

TOU323 Destination Management - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

TOU306 Hospitality and Tourism Project - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH: S1-internal (quota of 50 places)</span>

---

## HUMAN RESOURCES MANAGEMENT

### HUMAN RESOURCES MANAGEMENT (BBUS)

School of Business and Governance

Bachelor of Business (BBus) in Human Resources Management

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Business

Human Resources Management professionals specialise in managing functions and activities concerned with attracting, maintaining and developing people within the organisation. A Bachelor of Business (Human Resources Management) will provide

students with a body of knowledge that includes the understanding of historical perspectives and contemporary developments in Human Resources Management. Students will have knowledge of how research principles and methods inform Human Resources Management decision-making. Graduates of a Bachelor of Business (Human Resources Management) will demonstrate the application of knowledge and skills via the planning and completion of significant research-based or scholarship-centred projects.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

#### **Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Employment Prospects:**

The areas of employment include government, private and not for profit organisations.

#### **Recommended Double Majors:**

Accounting; Banking; Business Law; Finance; Hospitality and Tourism Management; International Business; Management; Marketing

#### **Excluded Minors:**

Human Resources Management

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

BUS171 Foundations of Economics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## **Part II - 48 credit points**

### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Year 2 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

#### **Core Units - 9 credit points**

BSL202 Workplace Law - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS293 Organisational Theory and Behaviour - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS297 Principles of Human Resources Management - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

#### **Core Units - 9 credit points**

BUS332 Employment Relations - 3 points  
MURDOCH: S1-internal, S1-external

or

BUS351 Employment Relations in Asia - 3 points  
KAPLAN-SGP: TMA-internal

BUS340 Advanced Human Resource Perspectives - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

BUS301 Human Resource Economics - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points



MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points

<span data-type="offering" data-unit="BUS267">MURDOCH:

S1-internal (quota of 50 places)</span>

## INTERACTIVE DIGITAL DESIGN

### GRAPHIC DESIGN (BA)

School of Arts

Bachelor of Arts (BA) in Graphic Design

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

#### Parent Major:

Bachelor of Arts

The Bachelor of Arts in Graphic Design focuses on the generation of ideas and the creative ways they can be visually communicated across a range of print and digital media. Throughout the degree students will master industry specific software, critical design thinking, visual problem solving and authentic production techniques through a range of industry relevant projects. In the final year students will work with real world clients and develop a portfolio encompassing both print (branding and publication design) as well as digital environments (web and mobile app design) for a dynamic and rapidly changing global industry.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Graduates are particularly suited for careers in all aspects of Graphic Design including publication and prepress design, branding and identity design, information design, signage design, digital design, web design and/or development, mobile app design, interaction design, interface design and digital content development.

#### Professional Recognition:

The Bachelor of Arts (Graphic Design) is a nationally accredited and registered award in tertiary education. Graduates are eligible to apply for Associate Status with the Design Institute of Australia (DIA) and the Australian Graphic Design Association (AGDA).

#### Recommended Double Majors:

Games Art and Design; Photography; Screen Production; Web Communication

#### Excluded Minors:

Print Design; Web Design

#### Main Research Areas:

Graphic Design, print design, web design, mobile app design, visual communication, multimedia design, interaction design,

interface design, branding and identity design, information design, digital design.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

IDD129 Introduction to Digital Media Skills - 3 points

MURDOCH: S1-internal

IDD118 Introduction to Graphic Design - 3 points

MURDOCH: S2-internal

GAD172 Drawing - 3 points

MURDOCH: S1-internal, S2-internal

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points

MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

WEB263 Web Design - 3 points

MURDOCH: S1-internal

IDD201 Publication Design - 3 points

MURDOCH: S2-internal

IDD202 Brand and Identity Design - 3 points

MURDOCH: S1-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and

minors will be included in the major's description.

Recommended:

GAD232 Critical Games, Play and Design - 3 points  
MURDOCH: S2-internal

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Core Units - 9 credit points

IDD379 Mobile App and Interaction Design - 3 points  
MURDOCH: S1-internal

OR

IDD325 Graphic Design Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

IDD337 Portfolio and Promotion for Designers - 3 points  
MURDOCH: S2-internal

IDD338 Advanced Web Design - 3 points  
MURDOCH: S1-internal

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## INTERNATIONAL AID AND DEVELOPMENT

### INTERNATIONAL AID AND DEVELOPMENT (BA)

School of Business and Governance

Bachelor of Arts (BA) in International Aid and Development

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

This degree explores the challenges and the changing approaches to international aid by government, multilateral organisations and non-government aid agencies. It focuses on key issues such as poverty reduction, governance, capacity building, and participatory approaches. It will equip students to be effective development practitioners in international and cross-cultural settings. The emphasis is on community-level engagement and tools and skills for project management and participatory development practice.

In the Bachelor of Arts you will develop a broad understanding of

your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Non-government agencies; Department of Foreign Affairs and Trade; development consultancies.

#### Recommended Double Majors:

Community Development; Community Development (OUA); Global Politics and Policy; International Business; Sustainable Development; Sustainable Development (OUA)

#### Main Research Areas:

Asian studies; development studies; community development; indigenous development; international development

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

POL161 Understanding International Politics - 3 points  
MURDOCH: S2-internal, S2-external

COD125 Introduction to Community Development - 3 points  
MURDOCH: S1-internal, S1-external

SUS100 Introduction to Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommended General Elective:

POL134 Global Justice - 3 points  
MURDOCH: S2-internal, S2-external

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental****Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

SUS207 Overseas Aid and International Development - 3 points  
MURDOCH: S1-internal, S1-external

POL298 International Political Economy - 3 points  
MURDOCH: S1-internal, S1-external

POL226 Sex and Gender Matters - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental****Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

SUS309 International Aid and Development in Practice - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

SUS310 Sustainable Urban Communities - 3 points  
MURDOCH: S1-internal, S1-external

AST350 Society, Culture and Ecology in Asia - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**INTERNATIONAL BUSINESS****See also:**

Politics and International Studies

**INTERNATIONAL BUSINESS (BBUS)**

School of Business and Governance

Bachelor of Business (BBus) in International Business

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Business

International Business is an integrated degree with a strong basis in international commerce and economics, as well as interdisciplinary links with Asian studies areas. Students are exposed to a selection of units that will develop their knowledge of the global business environment and related political and social factors in some of the largest and most dynamic economies of the world.

The major is designed to enable students to acquire skills needed for employment in an international environment. Business core units provide the foundation for a broad international business perspective and skills appropriate to understanding and dealing with a range of cultures in an increasingly globalised world.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

**Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Areas of employment include government, private and not-for-profit organisations

**Recommended Double Majors:**

Accounting; Banking; Business Law; Economics; Finance; Hospitality and Tourism Management; Human Resources Management; International Aid and Development (OUA); Management; Marketing

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS183 Foundations of Marketing - 3 points  
MURDOCH: S2-internal, S2-external

POL161 Understanding International Politics - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BUS293 Organisational Theory and Behaviour - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS284 Comparative Corporate Governance and International Operations - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

POL298 International Political Economy - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BUS343 International Marketing - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS344 International Management - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

BUS341 Business Negotiations: An International Perspective - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description. Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH: S1-internal (quota of 50 places)</span>

---

**INTERNET SOFTWARE DEVELOPMENT**

---

**MOBILE AND WEB APPLICATION DEVELOPMENT (BSC)**

School of Engineering and Information Technology

Bachelor of Science (BSc) in Mobile and Web Application Development

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

**Parent Major:**

Bachelor of Science (IT Majors)

This major is designed to provide students with specialisation in the field of programming and mobile application development. The main areas covered include: the design and management of web based computing systems and mobile applications, the development and maintenance of applications for the Internet and mobile devices including multimedia, databases, software development and multi-platform development.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

**Employment Prospects:**

Excellent career opportunities exist for Mobile and Web Application Development graduates in business, industry and government as web system developers, mobile application developers, programmers, systems analysts, database administrators, computer systems and network administrators, user support officers and software engineers.

**Professional Recognition:**

This course is accredited at the Professional level with the Australian Computer Society.

**Recommended Double Majors:**

Computer Science; Cyber Forensics and Information Security; Games Software Design and Production; Games Technology

**Excluded Minors:**

Web Development

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

ICT167 Principles of Computer Science - 3 points  
MURDOCH: S2-internal, S2-external

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 9 credit points**

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external

ICT285 Databases - 3 points

MURDOCH: S2-internal, S2-external

ICT286 Web and Mobile Computing - 3 points

MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 24 credit points****Research Skills Unit - 3 credit points**

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 12 credit points**

ICT375 Advanced Web Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT365 Software Development Frameworks - 3 points  
MURDOCH: S2-internal, S2-external

ICT376 Mobile Application Development - 3 points  
MURDOCH: S2-internal, S2-external

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**MOBILE AND WEB APPLICATION DEVELOPMENT HONOURS (BSC(HONS))**

School of Engineering and Information Technology

Bachelor of Science Honours (BSc(Hons)) in Internet Software Development

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

**Thesis - 12 credit points**

ICT580 Honours Thesis in Mobile and Web Application Development - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

(CCNA), Cisco Certified Network Professional (CCNP); Managing Securing Networks with Cisco Routers and Switches (SNRS), Securing Networks with ASA Foundation (SNAF), Securing Networks with ASA Advanced (SNAA).

**Recommended Double Majors:**

Business Information Systems; Mobile and Web Application Development

**Excluded Minors:**

Network Design; Network Security

**Main Research Areas:**

Communication standards, electronic commerce, high speed networks and distance education.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

ICT171 Introduction to Server Environments and Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ICT170 Foundations of Computer Systems - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BSC203 Introduction to ICT Research Methods - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 9 credit points**

ICT284 Systems Analysis and Design - 3 points  
MURDOCH: S1-internal, S1-external

ICT291 Network Design and Implementation - 3 points  
MURDOCH: S1-internal

## 4

**INTERNETWORKING AND NETWORK SECURITY****INTERNETWORKING AND NETWORK SECURITY (BSC)**

School of Engineering and Information Technology

Bachelor of Science (BSc) in Internetworking and Network Security

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

**Parent Major:**

Bachelor of Science (IT Majors)

This major provides the knowledge and skills required to manage the complexity of the Internet of tomorrow, integrating voice, wireless, and security into the network. It is designed in consultation with industry to meet the growing need for networking specialists with skills in security and converged voice and data networks.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Internet access is required for all students.

**Employment Prospects:**

This major prepares students for a career in computer networking for business, industry or government. The major also offers training towards the excellent Cisco Certification useful in a number of areas such as Network Engineer and System Administrator that are considered very desirable by potential employers across a large range of enterprises.

**Professional Recognition:**

Graduates receive professional membership of the Australian Computing Society (ACS) and are eligible to sit for the following industry certification exams: Cisco Certified Network Associate

ICT285 Databases - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 24 credit points

#### Research Skills Unit - 3 credit points

BSC301 Applied Research Skills in ICT - 3 points  
MURDOCH: S1-internal, S1-external

#### Core Units - 12 credit points

ICT369 Wireless and Interactive Networks - 3 points  
MURDOCH: S2-internal

ICT377 Network Security - 3 points  
MURDOCH: S1-internal

ICT372 Advanced Network Design and Implementation - 3 points  
MURDOCH: S2-internal

ICT302 IT Professional Practice Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## INTERNETWORKING AND NETWORK SECURITY HONOURS (BSC(HONS))

School of Engineering and Information Technology

Bachelor of Science Honours (BSc(Hons)) in Internetworking

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Course Structure - 24 credit points

#### Coursework - 12 credit points

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT576 Information Technology Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

Plus another two 500-level IT units approved by the Academic Chair - 3 points each

### Thesis - 12 credit points

ICT590 Honours Thesis in Internetworking - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## JOURNALISM

#### See also:

Public Relations

### JOURNALISM (BA)

School of Arts

Bachelor of Arts (BA) in Journalism

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal)
- Some units only: Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

This major provides students with the skill set to operate in the digital era of news. You will learn practical reporting, writing and producing skills in journalism and it investigates the ethical, legal and cultural contexts of the news media. The major gives students the opportunity to work in an online newsroom. Students learn about the news media industry and about the influence of journalism on society.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Graduates may follow careers in the media or as freelance writers and producers. Graduates also will have research, communication and professional skills that are useful in many corporate and public sector settings.

#### Recommended Double Majors:

Communication and Media Studies; Global Politics and Policy; Public Relations; Radio; Web Communication

#### Excluded Minors:

Journalism

**Main Research Areas:**

Media law, ethics, storytelling. Journalism practice.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

CMS101 Introduction to Media Studies - 3 points  
MURDOCH: S2-internal, S2-external

JOU104 Digital Newsgathering and Journalism - 3 points  
MURDOCH: S2-internal

IDD129 Introduction to Digital Media Skills - 3 points  
MURDOCH: S1-internal  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TSA-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

JOU245 Media Law and Ethics - 3 points  
MURDOCH: S1-internal

JOU217 Online and Mobile Journalism - 3 points  
MURDOCH: S2-internal

CMS203 Audiences, Users and Participants - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**Core Units - 9 credit points**

JOU322 Digital Newsroom - 3 points  
MURDOCH: S1-internal, S2-internal

JOU340 Journalism and Society - 3 points  
MURDOCH: S2-internal

JOU367 Video Journalism - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

---

**JOURNALISM HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Journalism

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>



**Course Structure - 24 credit points****Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

JOU561 Honours Topic in Journalism A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

JOU562 Honours Topic in Journalism B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

JOU569 Honours Thesis in Journalism - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**LABORATORY MEDICINE****See also:**

Biomedical Science  
Forensic Biology  
Molecular Biology

**LABORATORY MEDICINE (BSC/BLABMED)**

School of Veterinary and Life Sciences

*Bachelor of Science/Bachelor of Laboratory Medicine (BSc/BLabMed) in Laboratory Medicine*

Course Codes: B1337

Duration: 4 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science/Bachelor of Laboratory Medicine

Medical laboratory scientists routinely perform diagnostic tests using human or veterinary clinical specimens that may include blood, cellular aspirates, tissue biopsies, stool or urine. They are employed in both the public and private sectors at hospitals and pathology laboratories. They have a broad knowledge of disease processes and are skilled in the handling of patient material, clinical testing and the analysis of results in specific discipline areas such as biochemistry, haematology, immunology, microbiology, histopathology, diagnostic genomics and transfusion science.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Excluded Minors:**

Biomedical Science

**Additional Academic Progress Requirements:**

In order to commence the fourth year of the Bachelor of Science/Bachelor of Laboratory Medicine students must have achieved a minimum GPA of 2.0 (out of 4.0) over their second and third year units.

**Major Prerequisites**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

**Course Structure - 96 credit points****Part I - 24 to 27 credit points****Year 1 - 24 to 27 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 18 to 21 credit points**

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Note: Students who are exempted from CHE140 Fundamentals of Chemistry may choose a General elective to make up the required points.

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students taking units from the Forensic Biology and Toxicology major will also need to take

CHE103 Introduction to Forensic Science - 3 points  
MURDOCH: S1-internal

**Part II - 69 to 72 credit points****Research Skills Units - 6 credit points**

Select from the units recommended below. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

**Year 2 - 15 to 18 credit points****Core Units - 12 credit points**

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

#### **Required Additional Study Area - 6 to 9 credit points**

Select units from one of the following majors:

##### **Biomedical Science Major - 9 credit points**

BMS206 Biomedical Physiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

##### **Forensic Biology and Toxicology Major - 6 credit points**

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

BMS213 Forensic Anatomy and Anthropology - 3 points  
MURDOCH: S1-internal

##### **Molecular Biology Major - 6 credit points**

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

OR

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

#### **General Electives - 0 to 3 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 18 credit points**

##### **Core Units - 9 credit points**

BMS321 Histology - 3 points  
<span data-type="offering" data-unit="BMS321">MURDOCH: S1-internal (quota of 30 places) (closed as the offering has reached capacity)</span>

BMS314 Pathological Basis of Disease - 3 points  
MURDOCH: S1-internal

Select one unit from below to be studied in Year 3 with the remaining two units to be studied in Year 4.

BMS322 Clinical Immunology - 3 points  
<span data-type="offering" data-unit="BMS322">MURDOCH: S2-internal (quota of 25 places)</span>

BMS325 Histopathology - 3 points  
<span data-type="offering" data-unit="BMS325">MURDOCH: S2-internal (quota of 20 places)</span>

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH: S2-internal (quota of 25 places)</span>

##### **Specified Electives - 6 credit points**

Select from the following:

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS324 Clinical Microbiology I - 3 points  
<span data-type="offering" data-unit="BMS324">MURDOCH: S2-internal (quota of 25 places)</span>

BMS326 Clinical Haematology I - 3 points  
<span data-type="offering" data-unit="BMS326">MURDOCH: S2-internal (quota of 25 places)</span>

#### **Required Additional Study Area - 6 to 9 credit points**

Select units from one of the following majors, which must be the same as the area chosen for Year 2 units.

##### **Biomedical Science Major - 6 credit points**

BMS314 Pathological Basis of Disease - 3 points  
MURDOCH: S1-internal

BMS315 Advances in Medical Science - 3 points  
MURDOCH: S2-internal

##### **Forensic Biology and Toxicology Major - 9 credit points**

BIO315 Bodies of Evidence - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

##### **Molecular Biology Major - 9 credit points**

BIO356 Genetics and Evolution - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO378 Systems Biology - 3 points  
MURDOCH: S2-internal

#### **General Electives - 0 to 3 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 4 - 24 credit points**

##### **Core Units - 18 credit points**

BMS431 Laboratory Medicine Practice I - 6 points  
Not available this year

BMS432 Laboratory Medicine Practice II - 6 points  
Not available this year

Select one unit from below to be studied in Year 3 with the remaining two units to be studied in Year 4.

BMS322 Clinical Immunology - 3 points  
<span data-type="offering" data-unit="BMS322">MURDOCH: S2-internal (quota of 25 places)</span>

BMS325 Histopathology - 3 points  
<span data-type="offering" data-unit="BMS325">MURDOCH: S2-internal (quota of 20 places)</span>

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH: S2-internal (quota of 25 places)</span>

##### **Specified Electives - 6 credit points**

Select from the following:

BMS423 Clinical Biochemistry II - 3 points  
Not available this year

BMS424 Clinical Microbiology II - 3 points  
Not available this year

BMS426 Clinical Haematology II - 3 points  
Not available this year

### Additional Academic Progress Requirements

In order to commence the fourth year of the Bachelor of Science/Bachelor of Laboratory Medicine students must have achieved a minimum GPA of 2.0 (out of 4.0) over their second and third year units.

## LABORATORY SCIENCE

### CLINICAL LABORATORY SCIENCE (BSC)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Clinical Laboratory Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

#### Parent Major:

Bachelor of Science (Non-IT Majors)

Clinical Laboratory Science provides a foundation for a career in medical diagnosis or other health-related fields. The major builds on a general introduction to human biology, cell biology and human molecular genetics to cover a range of clinical laboratory disciplines including haematology, immunology, histopathology and diagnostic genomics. Students will obtain a broad knowledge of disease processes as well as technical skills in the handling of patient material, clinical testing and the analysis and troubleshooting of results. The major provides extensive exposure to the underlying principles involved in the measurement of clinical parameters.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Clinical laboratory scientists find employment in hospitals, medical research institutes, universities, government agencies and the private sector as Medical Researchers, Medical Technologists, Biopharmaceutical Scientists, Health Department Administrators, Patent Attorneys, Medical Sales and Marketing Professionals, and Teachers/Academics.

#### Recommended Double Majors:

Biomedical Science; Forensic Biology and Toxicology; Genetics and Molecular Biology

#### Recommended Minors:

Biomedical Science; Forensic Biology; Molecular Biology

#### Further Study and Surrender of Degree:

Subject to academic performance requirements, students completing Clinical Laboratory Science as a double major with either Biomedical Science, Molecular Biology or Forensic Biology

and Toxicology, can gain entry into a fourth year of study incorporating clinical practicum experiences leading to a full qualification in Laboratory Medicine. Students continuing on to the four year Bachelor of Laboratory Medicine must surrender their three year Bachelor of Science degree.

Clinical Laboratory Science is also excellent preparation for graduate studies in the health and medical fields, such as Medicine or Pharmacy.

### Major Prerequisites

#### Chemistry Background

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 15 credit points

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### General Electives - 3 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3

points

MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Unit - 3 credit points**

BMS321 Histology - 3 points  
<span data-type="offering" data-unit="BMS321">MURDOCH: S1-internal (quota of 30 places) (closed as the offering has reached capacity)</span>

**Specified Electives - 6 credit points**

Select from the following:

BMS322 Clinical Immunology - 3 points  
<span data-type="offering" data-unit="BMS322">MURDOCH: S2-internal (quota of 25 places)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS324 Clinical Microbiology I - 3 points  
<span data-type="offering" data-unit="BMS324">MURDOCH: S2-internal (quota of 25 places)</span>

BMS325 Histopathology - 3 points  
<span data-type="offering" data-unit="BMS325">MURDOCH: S2-internal (quota of 20 places)</span>

BMS326 Clinical Haematology I - 3 points  
<span data-type="offering" data-unit="BMS326">MURDOCH: S2-internal (quota of 25 places)</span>

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH: S2-internal (quota of 25 places)</span>

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List****Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
 MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
 MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
 MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
 MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
 MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
 MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
 MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
 MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
 MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
 MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
 MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
 MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points

MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
 MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
 MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
 MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
 MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
 MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
 MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
 MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
 MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
 MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
 points  
 MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
 MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
 MURDOCH: S1-internal

---

## **LAW**

### **See also:**

Migration Law

## LAW (LLB/LLB(HONS))

School of Law

*Bachelor of Laws Honours (LLB(Hons)) in Law; Bachelor of Laws (LLB) in Law*

Course Codes: B1321 H1247

Duration: 4 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)
- Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)

Restriction: Enrolment is subject to restriction due to competitive admission requirements.

### Parent Major:

Bachelor of Laws

Students in the Murdoch Law degree include both candidates who enter it directly from matriculation, and mature-age students. In keeping with its character as a professional preparation, a significant proportion of the Law degree is obligatory. This gives all students a basic understanding of the legal system and an introduction to the abilities demanded by the professional practice of law. At the same time, students will be provided with opportunities to practise these abilities in simulated professional settings such as the Law School's Clinical Education Centre at Rockingham.

Students will build on this foundation through advanced unit offerings in such areas as corporate and commercial law, environmental law, family law, international law, alternative dispute resolution and human rights law.

Students in the degree may study on a part-time basis. It should be noted that, in some circumstances, enrolment in less than 12 points in a semester may mean that students will not meet the formal prerequisite requirements for units which they may wish to study in subsequent semesters.

Note: Only students admitted to the Law degree (or to a joint degree with Law or Juris Doctor qualification) are permitted to enrol in units in the Law degree. Students not admitted to the Law degree who would like to undertake legal study should refer to the Law, Business & Society major (BA) or Business Law major (BBus).

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

### Special Requirements:

European Summer Program in Law and International Human Rights Program:

The School of Law is offering a selection of specified elective units as part of its European Summer Program in Law, hosted at the University of Macerata, Italy, and its International Human Rights Program in Geneva, Switzerland. These programs will be run subject to sufficient enrolments.

Enrolment in these programs is by application to the Program Director. Students are required to pay an application fee when submitting their application. Students enrolling in the program are responsible for their own airfares, accommodation, meals and incidental expenses during the program. Students are also required to pay a fee for course materials and access to the library, Internet and other facilities at the host location.

Students in the program must possess a passport valid for at least six months from the date of departure from Perth, with eligibility for a visa to enter the host country; Permanent Residents may also require a visa for re-entry into Australia.

Students are covered by Murdoch University for travel insurance. Students are advised to be aware of Australian Department of Foreign Affairs and Trade (DFAT) travel advisories prior to their departure via the following website:

<http://www.smartraveller.gov.au/>

All students must complete the University's online Travel Register prior to departure.

Students interested in the European Summer Program or the International Human Rights programs are encouraged to contact the School of Law office for further information.

### Part-time Study:

Students in the degree may study on a part-time basis. It should be noted that, in some circumstances, enrolment in less than 12 points in a semester may mean that students will not meet the formal prerequisite requirements for units which they may wish to study in subsequent semesters.

### Professional Recognition:

The Murdoch Bachelor of Laws satisfies the University education requirements for the practice of law of the governing bodies of the legal profession of Western Australia. As is the pattern in the rest of Australia, before a candidate may be admitted to the practice of law in this State, certain additional requirements must be satisfied after completion of this formal university training.

### Excluded Majors:

Business Law; Law, Business and Society

### Award of Bachelor of Laws with Honours (LLB(Hons)):

Students must apply for entry into Honours immediately prior to commencing their final 24 points of study.

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law, considered together with overall performance in LLB582 Legal Research Methods for Honours, and LLB452 Corporations Law, LLB450 Civil Procedure, LLB468 Ethics and Professional Responsibility and LLB580 Honours Thesis in Law completed in the Honours year. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LLB580 and enrol in the Honours award. Students should seek advice and further information from the Honours Chair for Law.

### Award with Distinction:

Graduation with Distinction or High Distinction is awarded on the basis of a high level of academic performance in Murdoch University Law units of LLB. The Award of Distinction and High Distinction is not available to students who achieve Honours.

### Graduate Entry to Bachelor of Laws:

Students with a completed undergraduate degree will be given advanced standing of 24 credit points for graduate entry into the Bachelor of Laws, including preclusion from the two Breadth units where the undergraduate degree is sufficiently different from the Law degree. This will require completion of 72 credit points of Law units including the Bachelor of Laws Transition unit and Research Skills units.

Students who have completed the equivalent of 48 credit points of a \*\*Law degree will be given Advanced Standing of 48 credit points, comprising a maximum of 15 credit points at 100 level (Part I) and 33 credit points at 200 to 400 level (Part II), for entry into the Bachelor of Laws (LLB).

\*\*Law degree refers to 'being a Law degree that would, once conferred, satisfy the academic requirements of practicing law in that jurisdiction'.



**Course Structure - 96 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BJU100 Australian Legal System - 3 points  
MURDOCH: S1-internal, S2-internal

**Breadth Unit for Degree - 3 credit points**

BJU150 Law in Context - 3 points  
MURDOCH: S1-internal, S1-external

**Core Units - 9 credit points**

LLB152 Torts - 3 points  
MURDOCH: S2-internal

LLB130 Criminal Law and Procedure - 3 points  
MURDOCH: S2-internal

LLB120 Legal Writing for Lawyers - 3 points  
MURDOCH: S1-internal, S2-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

**Part II - 72 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BJU200 Research Methods for Law - 3 points  
MURDOCH: S2-internal

**Core Units - 18 credit points**

LLB260 Contract Law - 6 points  
MURDOCH: S1-internal

LLB253 Property Law A - 3 points  
MURDOCH: S1-internal

LLB254 Property Law B - 3 points  
MURDOCH: S2-internal

LLB251 Equity - 3 points  
MURDOCH: S1-internal

LLB259 Constitutional Law - 3 points  
MURDOCH: S2-internal

**Year 3 - 24 credit points****Research Skills Unit - 3 credit points**

BJU300 Legal Theory and Research - 3 points  
MURDOCH: S1-internal

**Core Units - 9 credit points**

LLB358 Australian Administrative Law - 3 points  
MURDOCH: S1-internal

LLB353 Trusts - 3 points  
MURDOCH: S2-internal

LLB352 Evidence - 3 points  
MURDOCH: S2-internal

**Specified Electives - 12 credit points**

Select from the Specified Elective Unit List below.

**Year 4 - 24 credit points****Core Units - 9 credit points**

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

**Specified Electives - 15 credit points**

Select from the Specified Elective Unit List below.

**Specified Elective Unit List**

Select Specified Electives from the following units. Units will normally be available at least once every two years.

In addition, Special Topics are available from time to time and may be used as a Specified Elective. Students should consult the Academic Chair to confirm the offering in any particular year.

LLB393 Law in the Community (Street Law) - 3 points  
<span data-type="offering" data-unit="LLB393">MURDOCH: S1-internal (quota of 20 places), S2-internal</span>

LLB210 The Law of Costs - 3 points  
MURDOCH: SUM-internal, U-internal

LLB302 International Sale of Goods - 3 points  
MURDOCH: T3-internal

LLB201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal

LLB355 Admiralty Law - 3 points

LLB390 Clinical Legal Education - 3 points  
MURDOCH: S1-internal, S2-internal

LLB332 Commercial Law - 3 points  
MURDOCH: S2-internal

LLB325 Comparative Law - 3 points  
<span data-type="offering" data-unit="LLB325">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB341 Conflict of Laws - 3 points

LLB391 Alternative Dispute Resolution - 3 points  
MURDOCH: T1-internal

LLB363 Employment Relations Law - 3 points

LLB356 Climate Change, Sustainability and Environmental Law - 3 points  
MURDOCH: S1B-internal

LLB342 European Union Law - 3 points  
IMACERATA: S2G-internal

LLB370 Family Law - 3 points  
MURDOCH: S2-internal

LLB386 Family Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB337 Legal Protection of International Human Rights - 3 points  
GENEVA: S2G-internal

LLB376 International Human Rights Organisations - 3 points  
GENEVA: S2G-internal

LLB308 Introduction to Legal Practice - 3 points  
MURDOCH: S1-internal, S2-internal

LLB319 Insurance Law - 3 points

LLB307 IP: Regulating Innovation and Creativity - 3 points  
<span data-type="offering" data-unit="LLB307">MURDOCH: SUM-internal (closed as the offering has reached capacity),

U-internal

LLB387 Human Rights Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB236 Law and Society (A Medieval Case Study) - 3 points

LLB339 Shipping Law - 3 points  
Not available this year

LLB301 Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

LLB335 Mining and Natural Resources Law - 3 points  
MURDOCH: S1-internal

LLB305 Native Title Law - 3 points

LLB392 Oil and Gas Law - 3 points  
MURDOCH: SP23-internal

LLB389 Psychology and Law - 3 points  
MURDOCH: S2-internal

LLB365 Public International Law - 3 points  
MURDOCH: S1-internal

LLB323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal

LLB381 Supervised Legal Research - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal  
GENEVA: S2G-internal  
IMACERATA: S2G-internal

LLB311 International Trade Law - 3 points  
<span data-type="offering" data-unit="LLB311">IMACERATA:  
S2G-internal (quota of 35 places)</span>

LLB312 Law Moot #1 - 3 points  
<span data-type="offering" data-unit="LLB312">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB314 Introduction to Mooting - 3 points  
<span data-type="offering" data-unit="LLB314">MURDOCH:  
S1-internal (quota of 40 places)</span>

LLB315 Law Moot #2 - 3 points  
<span data-type="offering" data-unit="LLB315">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB327 Refugee Law - 3 points  
GENEVA: S2G-internal

LLB328 Trial Advocacy - 3 points  
<span data-type="offering" data-unit="LLB328">MURDOCH:  
SP23-internal (quota of 60 places)</span>

LLB367 Law of Planning - 3 points

LLB349 Comparative Contract Law - 3 points

LLB372 Law of Occupational Health and Safety - 3 points

LLB209 Sports Law - 3 points

LLB316 Basic Principles of Taxation Law - 3 points  
MURDOCH: S1-internal

LLB317 Advanced Taxation Law - 3 points  
Not available this year

LLB397 Mediation - 3 points  
<span data-type="offering" data-unit="LLB397">MURDOCH:  
T3-internal (quota of 80 places)</span>

LLB203 Indigenous Peoples, Law and Society - 3 points  
MURDOCH: S2-internal

LLB306 International Arbitration Law - 3 points  
MURDOCH: S1B-internal

### Award with Distinction

Students who have completed the four-year Bachelor of Laws at a high standard may be awarded their degree with Distinction or High Distinction.

### Honours

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law considered together with overall performance in the student's honours programme of study. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in the Honours award.

LLB580 Honours Thesis in Law - 12 points  
MURDOCH: H-internal, Y-internal

LLB582 Legal Research Methods for Honours - 3 points  
MURDOCH: H-internal, Y-internal

Students must complete the following units to count as part of their Honours program of study. Note that all three units are compulsory and must be completed as part of the degree.

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

---

## LAW + ARTS [COMBINED] (LLB+BA)

School of Law

Bachelor of Laws (LLB) + Bachelor of Arts (BA)

Course Codes: B1326 H1248

Duration: 5 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)
- Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)

*Restriction: Enrolment is subject to restriction due to competitive admission requirements.*

Murdoch offers combined degrees which combine Law and another bachelor degree in an integrated course of study. This allows students seeking a Law degree to gain a range of opportunities for the study of disciplines other than law which are greater than those for students within the Law degree studied on its own.

Combined degrees include the Bachelor of Laws with Bachelor of Arts, Bachelor of Science or Bachelor of Business.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

### Professional Recognition:

The Murdoch Bachelor of Laws satisfies the University education requirements for the practice of law of the governing bodies of the

legal profession of Western Australia. As is the pattern in the rest of Australia, before a candidate may be admitted to the practice of law in this State, certain additional requirements must be satisfied after completion of this formal university training.

**Recommended Double Majors:**

Asian Studies; Australian Indigenous Studies; Business Information Systems; Chemistry; Computer Science; Criminology; Economics; English and Creative Writing; Environmental Science; Global Politics and Policy; History; Mathematics and Statistics; Philosophy; Sociology; Sustainable Development; Sustainable Development (OUA)

**Excluded Majors:**

Law, Business and Society

**Award of Bachelor of Laws with Honours (LLB(Hons)):**

Students must apply for entry into Honours immediately prior to commencing their final 24 points of study. The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law, considered together with overall performance in LLB582 Legal Research Methods for Honours and two units from LAW452/LLB452 Corporations Law, LAW450/LLB450 Civil Procedure, LAW468/LLB468 Ethics and Professional Responsibility and LLB580 Honours Thesis in Law completed in the Honours year. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LAW480/LLB580 and enrol in the Honours award. Students should seek advice and further information from the Academic Chair for Law or the Law School Office.

**Award with Distinction:**

Graduation with Distinction or Higher Distinction is awarded on the basis of a high level of academic performance in Murdoch University Law units of Law + Arts (Combined). The award with Distinction and High Distinction is not available to students who achieve Honours.

**Course Structure - 120 credit points**

A combined degree, where one of the degrees is Law, may take longer than 5 years (10 semesters) to complete.

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

**Law Unit - 3 credit points**

BJU100 Australian Legal System - 3 points  
MURDOCH: S1-internal, S2-internal

**Breadth Unit for Degree - 3 credit points**

**Arts Unit - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 to 18 credit points**

**Law Units - 9 credit points**

LLB152 Torts - 3 points  
MURDOCH: S2-internal  
  
LLB130 Criminal Law and Procedure - 3 points  
MURDOCH: S2-internal  
  
LLB120 Legal Writing for Lawyers - 3 points  
MURDOCH: S1-internal, S2-internal

**Arts Units - 6 to 9 credit points**

Choose from any Arts majors. Refer to the Part I Core Unit requirements of the selected Arts major.

**General Electives - 0 to 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

**Part II - 96 credit points**

**University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 24 credit points**

**Core Units - 24 credit points**

**Low Units - 15 credit points**

LLB251 Equity - 3 points  
MURDOCH: S1-internal  
  
LLB260 Contract Law - 6 points  
MURDOCH: S1-internal  
  
LLB253 Property Law A - 3 points  
MURDOCH: S1-internal  
  
LLB254 Property Law B - 3 points  
MURDOCH: S2-internal

**Arts Units - 9 credit points**

Refer to the Part II Core Unit requirements of the selected Arts major.

**Year 3 - 24 credit points**

**Research Skills Units - 6 credit points**

**Law Unit - 3 credit points**

BJU200 Research Methods for Law - 3 points  
MURDOCH: S2-internal

**Arts Unit - 3 credit points**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points**

**Law Units - 12 credit points**

LLB259 Constitutional Law - 3 points  
MURDOCH: S2-internal  
  
LLB358 Australian Administrative Law - 3 points  
MURDOCH: S1-internal  
  
LLB353 Trusts - 3 points  
MURDOCH: S2-internal  
  
LLB352 Evidence - 3 points  
MURDOCH: S2-internal

**Arts Unit - 3 credit points**

Refer to the Part II Core Unit requirements of the selected Arts major.

**Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

**Year 4 - 21 credit points**

**Research Skills Units - 6 credit points**

**Law Unit - 3 credit points**

BJU300 Legal Theory and Research - 3 points  
MURDOCH: S1-internal

**Arts Unit - 3 credit points**

BAR300 Advanced Research in the Arts - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Core Units - 9 credit points**

#### **Law Unit - 3 credit points**

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

#### **Arts Units - 6 credit points**

Refer to the Part II Core Unit requirements of the selected Arts major.

#### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

### **Year 5 - 24 credit points**

#### **Core Units - 6 credit points**

#### **Law Units - 6 credit points**

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

#### **Specified Electives - 18 credit points**

Select from the Specified Elective Unit List below.

#### **Specified Elective Unit List**

##### **Law Units**

Select Specified Electives from the following units during Years 4 and 5.

Units will normally be available at least once every two years.

In addition Special Topics are available from time to time and may be used as a specified elective. Students should consult the Academic Chair to confirm the offering in any particular year.

Students intending to complete Honours should contact the Academic Chair, and should also note that the Honours program will affect the number of specified electives required.

LLB393 Law in the Community (Street Law) - 3 points  
<span data-type="offering" data-unit="LLB393">MURDOCH: S1-internal (quota of 20 places), S2-internal</span>

LLB210 The Law of Costs - 3 points  
MURDOCH: SUM-internal, U-internal

LLB302 International Sale of Goods - 3 points  
MURDOCH: T3-internal

LLB201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal

LLB355 Admiralty Law - 3 points

LLB390 Clinical Legal Education - 3 points  
MURDOCH: S1-internal, S2-internal

LLB332 Commercial Law - 3 points  
MURDOCH: S2-internal

LLB325 Comparative Law - 3 points  
<span data-type="offering" data-unit="LLB325">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB341 Conflict of Laws - 3 points

LLB391 Alternative Dispute Resolution - 3 points  
MURDOCH: T1-internal

LLB363 Employment Relations Law - 3 points

LLB356 Climate Change, Sustainability and Environmental Law - 3 points  
MURDOCH: S1B-internal

LLB342 European Union Law - 3 points  
IMACERATA: S2G-internal

LLB370 Family Law - 3 points  
MURDOCH: S2-internal

LLB386 Family Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB387 Human Rights Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB301 Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

LLB308 Introduction to Legal Practice - 3 points  
MURDOCH: S1-internal, S2-internal

LLB307 IP: Regulating Innovation and Creativity - 3 points  
<span data-type="offering" data-unit="LLB307">MURDOCH: SUM-internal (closed as the offering has reached capacity), U-internal</span>

LLB236 Law and Society (A Medieval Case Study) - 3 points

LLB337 Legal Protection of International Human Rights - 3 points  
GENEVA: S2G-internal

LLB376 International Human Rights Organisations - 3 points  
GENEVA: S2G-internal

LLB319 Insurance Law - 3 points

LLB339 Shipping Law - 3 points  
Not available this year

LLB335 Mining and Natural Resources Law - 3 points  
MURDOCH: S1-internal

LLB305 Native Title Law - 3 points

LLB392 Oil and Gas Law - 3 points  
MURDOCH: SP23-internal

LLB389 Psychology and Law - 3 points  
MURDOCH: S2-internal

LLB365 Public International Law - 3 points  
MURDOCH: S1-internal

LLB323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal

LLB381 Supervised Legal Research - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal  
GENEVA: S2G-internal  
IMACERATA: S2G-internal

LLB311 International Trade Law - 3 points  
<span data-type="offering" data-unit="LLB311">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB312 Law Moot #1 - 3 points  
<span data-type="offering" data-unit="LLB312">MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)</span>

LLB314 Introduction to Mooting - 3 points  
<span data-type="offering" data-unit="LLB314">MURDOCH: S1-internal (quota of 40 places)</span>

LLB315 Law Moot #2 - 3 points  
<span data-type="offering" data-unit="LLB315">MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)</span>

LLB327 Refugee Law - 3 points  
GENEVA: S2G-internal

LLB328 Trial Advocacy - 3 points  
<span data-type="offering" data-unit="LLB328">MURDOCH:  
SP23-internal (quota of 60 places)</span>

LLB367 Law of Planning - 3 points

LLB349 Comparative Contract Law - 3 points

LLB372 Law of Occupational Health and Safety - 3 points

LLB209 Sports Law - 3 points

LLB316 Basic Principles of Taxation Law - 3 points  
MURDOCH: S1-internal

LLB317 Advanced Taxation Law - 3 points  
Not available this year

LLB397 Mediation - 3 points  
<span data-type="offering" data-unit="LLB397">MURDOCH:  
T3-internal (quota of 80 places)</span>

LLB203 Indigenous Peoples, Law and Society - 3 points  
MURDOCH: S2-internal

LLB306 International Arbitration Law - 3 points  
MURDOCH: S1B-internal

### Award with Distinction

Students who have completed the four-year Bachelor of Laws at a high standard may be awarded their degree with Distinction or High Distinction.

### Honours

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law considered together with overall performance in LLB582 Legal Research Methods for Honours and the remaining units in the student's Honours programme of study. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LLB580 Honours Thesis in Law and in the Honours award.

LLB580 Honours Thesis in Law - 12 points  
MURDOCH: H-internal, Y-internal

LLB582 Legal Research Methods for Honours - 3 points  
MURDOCH: H-internal, Y-internal

Students must complete the following units to count as part of their Honours program of study. Note that all three units are compulsory and must be completed as part of the degree.

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

## LAW + BUSINESS [COMBINED] (LLB+BBUS)

School of Law

*Bachelor of Laws (LLB) + Bachelor of Business (BBus)*

Course Codes: B1325 H1249

Duration: 5 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)
- Some units only: Geneva (Geneva, Switzerland) (internal)

(language of instruction: English) (some Specified Electives only)

*Restriction: Enrolment is subject to restriction due to competitive admission requirements.*

Murdoch offers combined degrees which combine Law and another bachelor degree in an integrated course of study. This allows students seeking a Law degree to gain a range of opportunities for the study of disciplines other than law which are greater than those for students within the Law degree studied on its own.

Combined degrees include the Bachelor of Laws with Bachelor of Arts, Bachelor of Science or Bachelor of Business.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

### Special Requirements:

Students enrolled in Law and Business (LLB/BBus) (course code B1325 H1249) will be exempt from completing BSL165/BUS165 Foundations of Business Law.

### Professional Recognition:

The Murdoch Bachelor of Laws satisfies the University education requirements for the practice of law of the governing bodies of the legal profession of Western Australia. As is the pattern in the rest of Australia, before a candidate may be admitted to the practice of law in this State, certain additional requirements must be satisfied after completion of this formal university training.

### Recommended Double Majors:

Asian Studies; Australian Indigenous Studies; Business Information Systems; Chemistry; Computer Science; Criminology; Economics; English and Creative Writing; Environmental Science; Global Politics and Policy; History; Mathematics and Statistics; Philosophy; Sociology; Sustainable Development; Sustainable Development (OUA)

### Excluded Majors:

Business Law; Law, Business and Society

### Excluded Minors:

Business Law

### Award of Bachelor of Laws with Honours (LLB(Hons)):

Students must apply for entry into Honours immediately prior to commencing their final 24 points of study.

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law, considered together with overall performance in LLB582 Legal Research Methods for Honours and two units from LAW452/LLB452 Corporations Law, LAW450/LLB450 Civil Procedure, LAW468/LLB468 Ethics and Professional Responsibility and LLB580 Honours Thesis in Law completed in the Honours year. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LAW480 LLB580 and enrol in the Honours award.

Students should seek advice and further information from the Academic Chair for Law or the Law School Office.

### Award with Distinction:

Graduation with Distinction or Higher Distinction is awarded on the basis of a high level of academic performance in Murdoch University Law units of Law + Business (Combined). The award with Distinction and High Distinction is not available to students who achieve Honours.

### Course Structure - 120 credit points

A combined degree, where one of the degrees is Law, may take longer than 5 years (10 semesters) to complete.

**Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BJU100 Australian Legal System - 3 points  
MURDOCH: S1-internal, S2-internal

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 18 credit points****Law Units - 9 credit points**

LLB152 Torts - 3 points  
MURDOCH: S2-internal

LLB130 Criminal Law and Procedure - 3 points  
MURDOCH: S2-internal

LLB120 Legal Writing for Lawyers - 3 points  
MURDOCH: S1-internal, S2-internal

**Business Units - 9 credit points**

Choose from any Business majors excluding Business Law. Refer to the Part I Core Unit Requirements of the selected Business major.

It should be noted that some Business majors may have more than 9 points for the Part I Core Unit Requirements.

**Part II - 96 credit points****University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 24 credit points****Core Units - 24 credit points****Law Units - 15 credit points**

LLB251 Equity - 3 points  
MURDOCH: S1-internal

LLB260 Contract Law - 6 points  
MURDOCH: S1-internal

LLB253 Property Law A - 3 points  
MURDOCH: S1-internal

LLB254 Property Law B - 3 points  
MURDOCH: S2-internal

**Business Units - 9 credit points**

Refer to the Part II Core Unit requirements of the selected Business major.

**Year 3 - 24 credit points****Research Skills Units - 6 credit points**

BJU200 Research Methods for Law - 3 points  
MURDOCH: S2-internal

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 15 credit points****Law Units - 12 credit points**

LLB259 Constitutional Law - 3 points  
MURDOCH: S2-internal

LLB358 Australian Administrative Law - 3 points

MURDOCH: S1-internal

LLB353 Trusts - 3 points

MURDOCH: S2-internal

LLB352 Evidence - 3 points

MURDOCH: S2-internal

**Business Unit - 3 credit points**

Refer to the Part II Core Unit requirements of the selected Business major.

**Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

**Year 4 - 21 credit points****Research Skills Units - 6 credit points**

BJU300 Legal Theory and Research - 3 points

MURDOCH: S1-internal

BBS300 Empirical Research Methods for Business - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points****Law Unit - 3 credit points**

LLB452 Corporations Law - 3 points

MURDOCH: S1-internal

**Business Units - 6 credit points**

Refer to the Part II Core Unit requirements of the selected Business major.

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**Year 5 - 24 credit points****Core Units - 6 credit points****Law Units - 6 credit points**

LLB450 Civil Procedure - 3 points

MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points

MURDOCH: S1-internal, S2-internal

**Specified Electives - 18 credit points**

Select from the Specified Elective Unit List below.

**Specified Elective Unit List****Law Units**

Select Specified Electives from the following units during Years 4 and 5.

Units will normally be available at least once every two years.

In addition Special Topics are available from time to time and may be used as a specified elective. Students should consult the Academic Chair to confirm the offering in any particular year.

Students intending to complete Honours should contact the Academic Chair, and should also note that the Honours program will affect the number of specified electives required.

LLB393 Law in the Community (Street Law) - 3 points  
<span data-type="offering" data-unit="LLB393">MURDOCH: S1-internal (quota of 20 places), S2-internal</span>

LLB210 The Law of Costs - 3 points  
MURDOCH: SUM-internal, U-internal

LLB302 International Sale of Goods - 3 points  
MURDOCH: T3-internal

LLB201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal

LLB355 Admiralty Law - 3 points

LLB390 Clinical Legal Education - 3 points  
MURDOCH: S1-internal, S2-internal

LLB332 Commercial Law - 3 points  
MURDOCH: S2-internal

LLB325 Comparative Law - 3 points  
<span data-type="offering" data-unit="LLB325">IMACERATA:  
S2G-internal (quota of 35 places)</span>

LLB341 Conflict of Laws - 3 points

LLB391 Alternative Dispute Resolution - 3 points  
MURDOCH: T1-internal

LLB363 Employment Relations Law - 3 points

LLB356 Climate Change, Sustainability and Environmental Law -  
3 points  
MURDOCH: S1B-internal

LLB342 European Union Law - 3 points  
IMACERATA: S2G-internal

LLB370 Family Law - 3 points  
MURDOCH: S2-internal

LLB386 Family Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB387 Human Rights Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB308 Introduction to Legal Practice - 3 points  
MURDOCH: S1-internal, S2-internal

LLB307 IP: Regulating Innovation and Creativity - 3 points  
<span data-type="offering" data-unit="LLB307">MURDOCH:  
SUM-internal (closed as the offering has reached capacity),  
U-internal</span>

LLB301 Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal,  
W-internal

LLB236 Law and Society (A Medieval Case Study) - 3 points

LLB337 Legal Protection of International Human Rights - 3  
points  
GENEVA: S2G-internal

LLB376 International Human Rights Organisations - 3 points  
GENEVA: S2G-internal

LLB319 Insurance Law - 3 points

LLB339 Shipping Law - 3 points  
Not available this year

LLB335 Mining and Natural Resources Law - 3 points  
MURDOCH: S1-internal

LLB305 Native Title Law - 3 points

LLB392 Oil and Gas Law - 3 points  
MURDOCH: SP23-internal

LLB389 Psychology and Law - 3 points  
MURDOCH: S2-internal

LLB365 Public International Law - 3 points  
MURDOCH: S1-internal

LLB323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal

LLB381 Supervised Legal Research - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal  
GENEVA: S2G-internal

IMACERATA: S2G-internal

LLB311 International Trade Law - 3 points  
<span data-type="offering" data-unit="LLB311">IMACERATA:  
S2G-internal (quota of 35 places)</span>

LLB312 Law Moot #1 - 3 points  
<span data-type="offering" data-unit="LLB312">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB314 Introduction to Mooting - 3 points  
<span data-type="offering" data-unit="LLB314">MURDOCH:  
S1-internal (quota of 40 places)</span>

LLB315 Law Moot #2 - 3 points  
<span data-type="offering" data-unit="LLB315">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB327 Refugee Law - 3 points  
GENEVA: S2G-internal

LLB328 Trial Advocacy - 3 points  
<span data-type="offering" data-unit="LLB328">MURDOCH:  
SP23-internal (quota of 60 places)</span>

LLB367 Law of Planning - 3 points

LLB349 Comparative Contract Law - 3 points

LLB372 Law of Occupational Health and Safety - 3 points

LLB209 Sports Law - 3 points

LLB316 Basic Principles of Taxation Law - 3 points  
MURDOCH: S1-internal

LLB317 Advanced Taxation Law - 3 points  
Not available this year

LLB397 Mediation - 3 points  
<span data-type="offering" data-unit="LLB397">MURDOCH:  
T3-internal (quota of 80 places)</span>

LLB203 Indigenous Peoples, Law and Society - 3 points  
MURDOCH: S2-internal

LLB306 International Arbitration Law - 3 points  
MURDOCH: S1B-internal

### Award with Distinction

Students who have completed the four-year Bachelor of Laws at a high standard may be awarded their degree with Distinction or High Distinction.

### Honours

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law considered together with overall performance in LLB582 Legal Research Methods for Honours and the remaining units in the student's Honours programme of study. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LLB580 Honours Thesis in Law and in the Honours award.

LLB580 Honours Thesis in Law - 12 points  
MURDOCH: H-internal, Y-internal

LLB582 Legal Research Methods for Honours - 3 points  
MURDOCH: H-internal, Y-internal

Students must complete the following units to count as part of their Honours program of study. Note that all three units are compulsory and must be completed as part of the degree.

LLB450 Civil Procedure - 3 points

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

## **LAW + SCIENCE [COMBINED] (LLB+BSC)**

School of Law

Bachelor of Laws (LLB) + Bachelor of Science (BSc)

Course Codes: B1324 H1250

Duration: 5 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (language of instruction: English) (some Specified Electives only)
- Some units only: Geneva (Geneva, Switzerland) (internal) (language of instruction: English) (some Specified Electives only)

Restriction: Enrolment is subject to restriction due to competitive admission requirements.

Murdoch offers combined degrees which combine Law and another bachelor degree in an integrated course of study. This allows students seeking a Law degree to gain a range of opportunities for the study of disciplines other than law which are greater than those for students within the Law degree studied on its own.

Combined degrees include the Bachelor of Laws with Bachelor of Arts, Bachelor of Science or Bachelor of Business.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

### **Professional Recognition:**

The Murdoch Bachelor of Laws satisfies the University education requirements for the practice of law of the governing bodies of the legal profession of Western Australia. As is the pattern in the rest of Australia, before a candidate may be admitted to the practice of law in this State, certain additional requirements must be satisfied after completion of this formal university training.

### **Recommended Double Majors:**

Asian Studies; Australian Indigenous Studies; Business Information Systems; Chemistry; Computer Science; Criminology; Economics; English and Creative Writing; Environmental Science; Global Politics and Policy; History; Mathematics and Statistics; Philosophy; Sociology; Sustainable Development; Sustainable Development (OUA)

### **Excluded Majors:**

Law, Business and Society

### **Award of Bachelor of Laws with Honours (LLB(Hons)):**

Students must apply for entry into Honours immediately prior to commencing their final 24 points of study.

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law, considered together with overall performance in LLB582 Legal Research Methods for Honours and two units from LAW452/LLB452 Corporations Law, LAW450/LLB450 Civil Procedure, LAW468/LLB468 Ethics and Professional Responsibility and LLB580 Honours Thesis in Law completed in the Honours year. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LAW480 LLB580 and enrol in the Honours award.

Students should seek advice and further information from the Academic Chair for Law or the Law School Office.

### **Award with Distinction:**

Graduation with Distinction or Higher Distinction is awarded on the basis of a high level of academic performance in Murdoch University Law units of Law + Science (Combined). The award with Distinction and High Distinction is not available to students who achieve Honours.

## **Course Structure - 120 credit points**

A combined degree, where one of the degrees is Law, may take longer than 5 years (10 semesters) to complete.

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BJU100 Australian Legal System - 3 points  
MURDOCH: S1-internal, S2-internal

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 18 credit points**

###### **Low Units - 9 credit points**

LLB152 Torts - 3 points  
MURDOCH: S2-internal

LLB130 Criminal Law and Procedure - 3 points  
MURDOCH: S2-internal

LLB120 Legal Writing for Lawyers - 3 points  
MURDOCH: S1-internal, S2-internal

###### **Science Units - 9 credit points**

Choose from any Science majors. Refer to the Part I Core Unit requirements of the selected Science major.

It should be noted that some Science majors may have more than 9 points for the Part I Core Unit Requirements.

### **Part II - 96 credit points**

#### **University-Wide Breadth Unit - 3 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Part II - 96 credit points**

#### **Year 2 - 24 credit points**

##### **Core Units - 24 credit points**

###### **Low Units - 15 credit points**

LLB251 Equity - 3 points  
MURDOCH: S1-internal

LLB260 Contract Law - 6 points  
MURDOCH: S1-internal

LLB253 Property Law A - 3 points  
MURDOCH: S1-internal

LLB254 Property Law B - 3 points  
MURDOCH: S2-internal

###### **Science Units - 9 credit points**

Refer to the Part II Core Unit requirements of the selected Science major.

#### **Year 3 - 24 credit points**

##### **Research Skills Units - 6 credit points**



BJU200 Research Methods for Law - 3 points  
MURDOCH: S2-internal

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

### **Core Units - 15 credit points**

#### **Law Units - 12 credit points**

LLB259 Constitutional Law - 3 points  
MURDOCH: S2-internal

LLB358 Australian Administrative Law - 3 points  
MURDOCH: S1-internal

LLB353 Trusts - 3 points  
MURDOCH: S2-internal

LLB352 Evidence - 3 points  
MURDOCH: S2-internal

#### **Science Unit - 3 credit points**

Refer to the Part II Core Unit requirements of the selected Science major.

#### **Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

### **Year 4 - 21 credit points**

#### **Research Skills Units - 6 credit points**

BJU300 Legal Theory and Research - 3 points  
MURDOCH: S1-internal

Refer to the Research Skills Unit list of the selected Science major and choose one unit not already completed.

#### **Core Units - 9 credit points**

##### **Law Unit - 3 credit points**

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

##### **Science Units - 6 credit points**

Refer to the Part II Core Unit requirements of the selected Science major.

#### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

### **Year 5 - 24 credit points**

#### **Core Units - 6 credit points**

##### **Law Units - 6 credit points**

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

#### **Specified Electives - 18 credit points**

Select from the Specified Elective Unit List below.

#### **Specified Elective Unit List**

##### **Law Units**

Select Specified Electives from the following units during Years 4 and 5.

Units will normally be available at least once every two years.

In addition Special Topics are available from time to time and may be used as a specified elective. Students should consult the Academic Chair to confirm the offering in any particular year.

Students intending to complete Honours should contact the Academic Chair, and should also note that the Honours program

will affect the number of specified electives required.

LLB393 Law in the Community (Street Law) - 3 points  
<span data-type="offering" data-unit="LLB393">MURDOCH: S1-internal (quota of 20 places), S2-internal</span>

LLB210 The Law of Costs - 3 points  
MURDOCH: SUM-internal, U-internal

LLB302 International Sale of Goods - 3 points  
MURDOCH: T3-internal

LLB201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal

LLB355 Admiralty Law - 3 points

LLB390 Clinical Legal Education - 3 points  
MURDOCH: S1-internal, S2-internal

LLB332 Commercial Law - 3 points  
MURDOCH: S2-internal

LLB325 Comparative Law - 3 points  
<span data-type="offering" data-unit="LLB325">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB341 Conflict of Laws - 3 points

LLB391 Alternative Dispute Resolution - 3 points  
MURDOCH: T1-internal

LLB363 Employment Relations Law - 3 points

LLB356 Climate Change, Sustainability and Environmental Law - 3 points  
MURDOCH: S1B-internal

LLB342 European Union Law - 3 points  
IMACERATA: S2G-internal

LLB370 Family Law - 3 points  
MURDOCH: S2-internal

LLB386 Family Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB387 Human Rights Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB301 Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

LLB308 Introduction to Legal Practice - 3 points  
MURDOCH: S1-internal, S2-internal

LLB307 IP: Regulating Innovation and Creativity - 3 points  
<span data-type="offering" data-unit="LLB307">MURDOCH: SUM-internal (closed as the offering has reached capacity), U-internal</span>

LLB236 Law and Society (A Medieval Case Study) - 3 points

LLB337 Legal Protection of International Human Rights - 3 points  
GENEVA: S2G-internal

LLB376 International Human Rights Organisations - 3 points  
GENEVA: S2G-internal

LLB319 Insurance Law - 3 points

LLB339 Shipping Law - 3 points  
Not available this year

LLB335 Mining and Natural Resources Law - 3 points  
MURDOCH: S1-internal

LLB305 Native Title Law - 3 points

LLB392 Oil and Gas Law - 3 points  
MURDOCH: SP23-internal

LLB389 Psychology and Law - 3 points

MURDOCH: S2-internal

LLB365 Public International Law - 3 points

MURDOCH: S1-internal

LLB323 Social and Welfare Law - 3 points

MURDOCH: S2-internal

LLB381 Supervised Legal Research - 3 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

GENEVA: S2G-internal

IMACERATA: S2G-internal

LLB311 International Trade Law - 3 points

<span data-type="offering" data-unit="LLB311">IMACERATA:

S2G-internal (quota of 35 places)</span>

LLB312 Law Moot #1 - 3 points

<span data-type="offering" data-unit="LLB312">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB314 Introduction to Mooting - 3 points

<span data-type="offering" data-unit="LLB314">MURDOCH:

S1-internal (quota of 40 places)</span>

LLB315 Law Moot #2 - 3 points

<span data-type="offering" data-unit="LLB315">MURDOCH:  
H-internal (quota of 40 places), S1-internal (quota of 40 places),  
S2-internal (quota of 40 places), SUM-internal (quota of 40  
places), U-internal (quota of 40 places), W-internal (quota of 40  
places)</span>

LLB327 Refugee Law - 3 points

GENEVA: S2G-internal

LLB328 Trial Advocacy - 3 points

<span data-type="offering" data-unit="LLB328">MURDOCH:

SP23-internal (quota of 60 places)</span>

LLB367 Law of Planning - 3 points

LLB349 Comparative Contract Law - 3 points

LLB372 Law of Occupational Health and Safety - 3 points

LLB209 Sports Law - 3 points

LLB316 Basic Principles of Taxation Law - 3 points

MURDOCH: S1-internal

LLB317 Advanced Taxation Law - 3 points

Not available this year

LLB397 Mediation - 3 points

<span data-type="offering" data-unit="LLB397">MURDOCH:

T3-internal (quota of 80 places)</span>

LLB203 Indigenous Peoples, Law and Society - 3 points

MURDOCH: S2-internal

LLB306 International Arbitration Law - 3 points

MURDOCH: S1B-internal

### Award with Distinction

Students who have completed the four-year Bachelor of Laws at a high standard may be awarded their degree with Distinction or High Distinction.

### Honours

The award of Honours is available on the basis of distinguished achievement in LLB580 Honours Thesis in Law considered together with overall performance in LLB582 Legal Research Methods for Honours and the remaining units in the student's Honours programme of study. Students must have achieved a specified WGPA in Murdoch Law units before they may be permitted to enrol in LLB580 Honours Thesis in Law and in the Honours award.

LLB580 Honours Thesis in Law - 12 points

MURDOCH: H-internal, Y-internal

LLB582 Legal Research Methods for Honours - 3 points

MURDOCH: H-internal, Y-internal

Students must complete the following units to count as part of their Honours program of study. Note that all three units are compulsory and must be completed as part of the degree.

LLB450 Civil Procedure - 3 points

MURDOCH: S1-internal

LLB452 Corporations Law - 3 points

MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points

MURDOCH: S1-internal, S2-internal

---

## LAW - GRADUATE ENTRY (LLB)

School of Law

Bachelor of Laws (LLB)

Course Codes: B1340

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: University of Macerata (Macerata, Italy) ['IMACERATA'] (internal) (some Specified Electives only)
- Some units only: Geneva (Geneva, Switzerland) (internal) (some Specified Electives only)

*Restriction: Enrolment is subject to restriction due to competitive admission requirements.*

### Parent Major:

Error

The Bachelor of Laws at Murdoch provides you with the necessary skills in research, writing and advocacy to prepare you for legal practice and/or leadership positions in the legal, business, government and community sectors. You will learn how to find and apply the law, to understand the principles and theories upon which it is based, and how to analyse it in the context of social policy. As a Murdoch student you have the opportunity to gain experience in Murdoch's legal clinic with real clients. Murdoch Law has an international focus and offers its students the opportunity to study some of its electives in other countries.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.; plus a recognised Bachelor degree (AQF level7) in any discipline.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

### Special Requirements:

European Summer Program in Law and International Human Rights Program:

The School of Law is offering a selection of specified elective units as part of its European Summer Program in Law, hosted at the University of Macerata, Italy, and its International Human Rights Program in Geneva, Switzerland. These programs will be run subject to sufficient enrolments.

Enrolment in these programs is by application to the Program Director. Students are required to pay an application fee when submitting their application. Students enrolling in the program are responsible for their own airfares, accommodation, meals and incidental expenses during the program. Students are also required to pay a fee for course materials and access to the library, Internet and other facilities at the host location.

Students in the program must possess a passport valid for at least six months from the date of departure from Perth, with eligibility for a visa to enter the host country; Permanent Residents may also require a visa for re-entry into Australia.

Students are covered by Murdoch University for travel insurance. Students are advised to be aware of Australian Department of Foreign Affairs and Trade (DFAT) travel advisories prior to their departure via the following website: <http://www.smartraveller.gov.au/> All students must complete the University's online Travel Register prior to departure.

Students interested in the European Summer Program or the International Human Rights programs are encouraged to contact the School of Law office for further information.

#### Part-time Study:

Students in the degree may study on a part-time basis. It should be noted that, in some circumstances, enrolment in less than 12 points in a semester may mean that students will not meet the formal prerequisite requirements for units which they may wish to study in subsequent semesters.

#### Employment Prospects:

Solicitor, Barrister, Corporate in-house counsel, Community Legal Centres, Not for profit organisations, Legal Aid, working in business, local or federal government or the community sector

#### Professional Accreditation:

The Murdoch Law degree is accredited by the Ministry of Law in Singapore, the Malaysian Bar Council and the Indian Bar Council.

#### Professional Recognition:

The Murdoch Bachelor of Laws satisfies the University education requirements for the practice of law of the governing bodies of the legal profession of Western Australia. As is the pattern in the rest of Australia, before a candidate may be admitted to the practice of law in this State, certain additional requirements must be satisfied after completion of this formal university training.

#### Excluded Majors:

Business Law; Law, Business and Society

#### Award of Bachelor of Laws with Honours (LLB (Hons)):

The School of Law offers an option for those students wishing to undertake Honours through a program undertaken after the completion of the Bachelor of Laws degree,

Students must have achieved a specified WGPA in their Law degree units before they may be permitted to enrol in the post-degree Honours Program. To take out the LLB with Honours they will need to complete the 24 point Honours program, consisting of LLB582 Legal Research Methods for Honours, LLB583 Advanced Supervised Legal Research and a choice of electives up to 6 points - in addition to the LLB580 Honours Thesis in Law. The award of Honours is available on the basis of sufficient achievement across all units undertaken in the student's Honours Program. Students should seek advice and further information from the Chair of the Law Honours Sub-Committee.

#### Award with Distinction:

Students who have completed the LLB at a high standard may be eligible to have their degree awarded with Distinction or High Distinction. See current University policy on award of degrees with Distinction or High Distinction.

#### Further Information:

Students with a completed undergraduate degree will be given advanced standing of 24 credit points for graduate entry into the Bachelor of Laws, including preclusion from the two Breadth units where the undergraduate degree is sufficiently different from the

Law degree. This will require completion of 72 credit points of Law units including the Bachelor of Laws Transition unit and Research Skills units. Students who have completed the equivalent of 48 credit points of a Law degree will be given Advanced Standing of 48 credit points, comprising a maximum of 15 credit points at 100 level (Part I) and 33 credit points at 200 to 400 level (Part II), for entry into the Bachelor of Laws (LLB). Law degree refers to 'being a Law degree that would, once conferred, satisfy the academic requirements of practicing law in that jurisdiction'. In keeping with its character as a professional preparation, a significant proportion of the Law degree is obligatory. This gives all students a basic understanding of the legal system and an introduction to the abilities demanded by the professional practice of law. At the same time, students will be provided with opportunities to practise these abilities in simulated professional settings such as the Law School's Clinical Education Centre at Rockingham. Students will build on this foundation through advanced unit offerings in such areas as corporate and commercial law, environmental law, family law, international law, alternative dispute resolution and human rights law. Students in the degree may study on a part-time basis. It should be noted that, in some circumstances, enrolment in less than 12 points in a semester may mean that students will not meet the formal prerequisite requirements for units which they may wish to study in subsequent semesters.

## Course Structure - 72 credit points

### Part I - 15 credit points

#### Year 1 - 15 credit points

##### Transition Unit - 3 credit points

BJU100 Australian Legal System - 3 points  
MURDOCH: S1-internal, S2-internal

##### Core Units - 9 credit points

LLB152 Torts - 3 points  
MURDOCH: S2-internal

LLB130 Criminal Law and Procedure - 3 points  
MURDOCH: S2-internal

LLB120 Legal Writing for Lawyers - 3 points  
MURDOCH: S1-internal, S2-internal

##### Specified Electives - 3 credit points

Select from the Specified Elective Unit List below.

### Part II - 57 credit points

#### Year 1 - 9 credit points

##### Core Units - 9 credit points

LLB260 Contract Law - 6 points  
MURDOCH: S1-internal

LLB259 Constitutional Law - 3 points  
MURDOCH: S2-internal

#### Year 2 - 24 credit points

##### Research Skills Unit - 3 credit points

BJU200 Research Methods for Law - 3 points  
MURDOCH: S2-internal

##### Core Units - 18 credit points

LLB253 Property Law A - 3 points  
MURDOCH: S1-internal

LLB254 Property Law B - 3 points  
MURDOCH: S2-internal

LLB251 Equity - 3 points  
MURDOCH: S1-internal

LLB358 Australian Administrative Law - 3 points

MURDOCH: S1-internal

LLB353 Trusts - 3 points  
MURDOCH: S2-internal

LLB352 Evidence - 3 points  
MURDOCH: S2-internal

### **Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

### **Year 3 - 24 credit points**

#### **Research Skills Unit - 3 credit points**

BJU300 Legal Theory and Research - 3 points  
MURDOCH: S1-internal

#### **Core Units - 9 credit points**

LLB452 Corporations Law - 3 points  
MURDOCH: S1-internal

LLB450 Civil Procedure - 3 points  
MURDOCH: S1-internal

LLB468 Ethics and Professional Responsibility - 3 points  
MURDOCH: S1-internal, S2-internal

### **Specified Electives - 12 credit points**

Select from the Specified Elective Unit List below.

#### **Specified Elective Unit List**

Select Specified Electives from the following units. Units will normally be available at least once every two years. In addition, Special Topics are available from time to time and may be used as a Specified Elective. Students should consult the Academic Chair to confirm the offering in any particular year.

LLB393 Law in the Community (Street Law) - 3 points  
<span data-type="offering" data-unit="LLB393">MURDOCH: S1-internal (quota of 20 places), S2-internal</span>

LLB210 The Law of Costs - 3 points  
MURDOCH: SUM-internal, U-internal

LLB302 International Sale of Goods - 3 points  
MURDOCH: T3-internal

LLB201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal

LLB355 Admiralty Law - 3 points

LLB390 Clinical Legal Education - 3 points  
MURDOCH: S1-internal, S2-internal

LLB332 Commercial Law - 3 points  
MURDOCH: S2-internal

LLB325 Comparative Law - 3 points  
<span data-type="offering" data-unit="LLB325">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB341 Conflict of Laws - 3 points

LLB391 Alternative Dispute Resolution - 3 points  
MURDOCH: T1-internal

LLB363 Employment Relations Law - 3 points

LLB356 Climate Change, Sustainability and Environmental Law - 3 points  
MURDOCH: S1B-internal

LLB342 European Union Law - 3 points  
IMACERATA: S2G-internal

LLB370 Family Law - 3 points  
MURDOCH: S2-internal

LLB386 Family Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB337 Legal Protection of International Human Rights - 3 points  
GENEVA: S2G-internal

LLB376 International Human Rights Organisations - 3 points  
GENEVA: S2G-internal

LLB308 Introduction to Legal Practice - 3 points  
MURDOCH: S1-internal, S2-internal

LLB319 Insurance Law - 3 points

LLB307 IP: Regulating Innovation and Creativity - 3 points  
<span data-type="offering" data-unit="LLB307">MURDOCH: SUM-internal (closed as the offering has reached capacity), U-internal</span>

LLB387 Human Rights Law Clinic - 3 points  
MURDOCH: S1-internal, S2-internal

LLB236 Law and Society (A Medieval Case Study) - 3 points

LLB339 Shipping Law - 3 points  
Not available this year

LLB301 Internships (WIL) - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

LLB335 Mining and Natural Resources Law - 3 points  
MURDOCH: S1-internal

LLB305 Native Title Law - 3 points

LLB392 Oil and Gas Law - 3 points  
MURDOCH: SP23-internal

LLB389 Psychology and Law - 3 points  
MURDOCH: S2-internal

LLB365 Public International Law - 3 points  
MURDOCH: S1-internal

LLB323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal

LLB381 Supervised Legal Research - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal  
GENEVA: S2G-internal  
IMACERATA: S2G-internal

LLB311 International Trade Law - 3 points  
<span data-type="offering" data-unit="LLB311">IMACERATA: S2G-internal (quota of 35 places)</span>

LLB312 Law Moot #1 - 3 points  
<span data-type="offering" data-unit="LLB312">MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)</span>

LLB314 Introduction to Mooting - 3 points  
<span data-type="offering" data-unit="LLB314">MURDOCH: S1-internal (quota of 40 places)</span>

LLB315 Law Moot #2 - 3 points  
<span data-type="offering" data-unit="LLB315">MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)</span>

LLB327 Refugee Law - 3 points  
GENEVA: S2G-internal

LLB328 Trial Advocacy - 3 points  
<span data-type="offering" data-unit="LLB328">MURDOCH: SP23-internal (quota of 60 places)</span>

LLB367 Law of Planning - 3 points

LLB349 Comparative Contract Law - 3 points

LLB372 Law of Occupational Health and Safety - 3 points

LLB209 Sports Law - 3 points

LLB316 Basic Principles of Taxation Law - 3 points

MURDOCH: S1-internal

LLB317 Advanced Taxation Law - 3 points

Not available this year

LLB397 Mediation - 3 points

<span data-type="offering" data-unit="LLB397">MURDOCH:  
T3-internal (quota of 80 places)</span>

LLB203 Indigenous Peoples, Law and Society - 3 points

MURDOCH: S2-internal

### Award with Distinction

Students who have completed the LLB at a high standard may be eligible to have their degree awarded with Distinction or High Distinction. See current University policy on award of degrees with Distinction or High Distinction.

## LAW HONOURS (LLB(HONS))

School of Law

Bachelor of Laws Honours (LLB(Hons))

Course Codes: H1267

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF level 7) or equivalent in the same discipline or cognate area with a Distinction average, subject to the availability of a suitable supervisor and approval by the Honours Academic Chair. Students interested in Honours enrolment are advised to contact the Law School Honours Academic Chair before application to discuss supervision of their potential research.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

#### Employment Prospects:

Legal, Government, private sector

#### Entry Requirements:

Students must have achieved a specified WGPA in their Law degree units before they may be permitted to enrol in the Honours Program. The award of Honours is available on the basis of sufficient achievement across all units undertaken in the student's Honours Program. Students should seek advice and further information from the Chair of the Law Honours Sub-Committee.

### Course Structure - 24 credit points

#### Coursework - 12 credit points

##### Core Units - 6 credit points

LLB582 Legal Research Methods for Honours - 3 points

MURDOCH: H-internal, Y-internal

LLB583 Advanced Supervised Legal Research - 3 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal,

W-internal

#### Specified Electives - 6 credit points

Students must choose up to 6 points of credit from any 500 level electives available. Where possible, students should enrol in units related to their Honours topic.

Clinical Practical units will also be available to students for enrolment as part of their Honours Program. These Clinical Practical units are a required for admission to practice in Law.

#### Thesis - 12 credit points

LLB580 Honours Thesis in Law - 12 points

MURDOCH: H-internal, Y-internal

## LAW, BUSINESS AND SOCIETY

### LAW, BUSINESS AND SOCIETY (BA)

School of Law

Bachelor of Arts (BA) in Law, Business and Society

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

This major will provide students with the knowledge and skills necessary to analyse the role and function of law in society. Core units will examine the role of law in national and international contexts and from commercial and non-commercial perspectives. This major helps you to understand the impact that law has on virtually every aspect of our lives. It will complement other majors or minors in your programme of study.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Employment prospects are varied. The interdisciplinary nature of the degree and the ability of students to undertake double majors or additional minors enhance job prospects in any field which has a connection to law.

#### Recommended Double Majors:

Criminology; Global Politics and Policy; Philosophy; Sociology; Tourism and Events

#### Recommended Minors:

Business Law; Social and Developmental Psychology

#### Excluded Majors:

Law + Business [Combined]; Law; Law + Arts [Combined]; Law +

Science [Combined]; Law - Graduate Entry

**Excluded Minors:**

Law and Justice

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

LEG100 Law, Justice and Social Policy - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

LEG203 Indigenous Peoples, Law and Society - 3 points  
MURDOCH: S2-internal, S2-external

CRM219 International and Transnational Crimes - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Choose one from the following list:

BSL202 Workplace Law - 3 points  
MURDOCH: S2-internal, S2-external

BSL203 Marketing and Advertising Law - 3 points  
MURDOCH: S1-internal, S1-external

BSL204 Tourism and Hospitality Law - 3 points

MURDOCH: S1-internal, S1-external

LEG236 Law and Society (A Medieval Case Study) - 3 points

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

LEG323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal, S2-external

CRM307 Culture, Diversity and Crime - 3 points  
MURDOCH: S1-internal

LEG391 Alternative Dispute Resolution - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

---

**LAW, BUSINESS AND SOCIETY HONOURS (BA(HONS))**

School of Law

Bachelor of Arts Honours (BA(Hons)) in Law, Business and Society

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Dean of the School.

Students interested in Honours enrolment are advised to contact the Law School Office before application to discuss supervision of their potential research.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points**

**Coursework - 9 credit points**

**Core Units - 9 credit points**

LLB582 Legal Research Methods for Honours - 3 points  
 MURDOCH: H-internal, Y-internal

ART503 Honours Seminar in Arts - 3 points  
 MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 15 credit points**

LEG519 Honours Thesis in Law, Business and Society - 15 points  
 MURDOCH: Y-internal

---

**MANAGEMENT**

---

**MANAGEMENT (BBUS)**

School of Business and Governance

*Bachelor of Business (BBUS) in Management*

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Business

Management refers to the process of employing resources to achieve organisational goals and customer needs. The study of management explores a wide range of relevant issues, theories and perspectives to better prepare people to understand the complexities and responsibilities of managerial life in the twenty-first century.

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

**Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Areas of employment include government, private and

not-for-profit organisations.

**Recommended Double Majors:**

Accounting; Banking; Business Law; Economics; Finance; Hospitality and Tourism Management; Human Resources Management; Marketing

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BSL165 Foundations of Business Law - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
 KAPLAN-SGP: TSA-internal

BUS170 Foundations of Accounting - 3 points  
 MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
 KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BUS293 Organisational Theory and Behaviour - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
 KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BSL202 Workplace Law - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS298 Organisation Development and Change - 3 points  
 MURDOCH: S2-internal, S2-external  
 KAPLAN-SGP: TMA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to

consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

#### Core Units - 9 credit points

BUS348 Knowledge Management - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS349 Strategic Management - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS334 Business Analytics and Decision Making - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

#### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH: S1-internal (quota of 50 places)</span>

## MANAGEMENT HONOURS (BBUS(HONS))

School of Business and Governance

*Bachelor of Business Honours (BBus(Hons)) in Management*

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at

<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

#### Core Units - 9 credit points

MBS516 Advanced Honours Topic A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
MURDOCH: S1-internal, S2-internal

#### Specified Electives - 3 credit points

Select from the following:

MBS619 Qualitative Organisational Research - 3 points

MBS659 Quantitative Research for Business - 3 points  
MURDOCH: S1-internal, S1-external

### Thesis - 12 credit points

MBS519 Honours Thesis - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## MARINE BIOLOGY

### MARINE BIOLOGY (BSC)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Marine Biology*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

#### Parent Major:

Bachelor of Science (Non-IT Majors)

Murdoch's Marine Biology major provides students with a detailed understanding of the biota and ecological processes of marine environments. Students study the diversity of marine life, as well as the interactions between species and between the biota and the physical environment. There is a strong emphasis on fundamental biological principles and how these underpin successful marine management, coupled with extensive opportunities for field work. Specialised units cover fish, wildlife populations and aquaculture. Students are encouraged to combine marine biology with a second minor or major to broaden their skills and to enhance employment opportunities.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken ATAR: Chemistry or WACE: Chemistry 3A/3B and at least ATAR: Mathematics Applications or TEE: Discrete Mathematics or WACE: Mathematics 2C/2D. Students not undertaking these recommended subjects will need to take additional units in their first year at university.



English competence.

#### **Employment Prospects:**

Graduates from marine biology programs find jobs in:

- \* Marine policy and planning in government (local, state and Commonwealth)
- \* Marine and coastal environmental groups and consultancies.
- \* Industry sectors such as aquaculture, fisheries and marine-based tourism.
- \* University and Government funded marine research institutions (incl. SARDI Aquatic Sciences, as well as and local, interstate and international Universities).

#### **Professional Recognition:**

Graduates are eligible for membership of the Australian Marine Sciences Association

#### **Recommended Double Majors:**

Conservation and Wildlife Biology; Environmental Management and Sustainability; Environmental Science; Genetics and Molecular Biology; Marine Science

#### **Recommended Minors:**

Applied Statistics; Ecosystem Management; Environmental Issues; Resource Management; Sustainability, Ecosystems and Community Development; Sustainable Development

#### **Excluded Minors:**

Marine Biology

#### **Main Research Areas:**

Staff teaching into Marine Biology contribute to ERA areas in Ecology, Zoology, Environmental Sciences, Environmental Science and Management, Plant Biology, and Fisheries Sciences

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 9 credit points**

BIO254 Marine Botany - 3 points  
MURDOCH: S1-internal

BIO244 Animal Speciation, Radiation, Evolution - 3 points  
MURDOCH: S2-internal

BIO249 Fish and Wildlife Populations - 3 points  
MURDOCH: S1-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO380 Aquaculture - 3 points  
Not available this year

BIO381 Marine Wildlife - 3 points  
Not available this year

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points

## MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
 MURDOCH: S2-internal

**Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

**Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

**Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
 MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
 <span data-type="offering" data-unit="BMS327">MURDOCH:  
 S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

## BIO359 Forensic DNA Analysis - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH:  
 S2-internal (quota of 66 places) (closed as the offering has  
 reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH:  
 S2-internal (quota of 25 places)</span>

**Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

**Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
 MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
 MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
 MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
 MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
 MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
 MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
 MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
 MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
 MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
 MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
 MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
 MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
 MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
 MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
 MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

## **MARINE SCIENCE**

### **See also:**

Environmental Science

## **MARINE SCIENCE (BSC)**

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Marine Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

*Restriction: Enrolment is subject to restriction due to constraints on unit enrolments.*

### **Parent Major:**

Bachelor of Science (Non-IT Majors)

Murdoch University offers a Marine Science major at undergraduate level to enable students to develop an understanding of the complex physical, chemical, biological and ecological processes in the ocean. Students learn to assess the state of the marine environment as well as identify and mitigate impacts. Specialised units cover marine biodiversity, marine biology, oceanography, marine ecology and students also develop skills in coastal and marine management.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have undertaken ATAR: Chemistry or WACE: Chemistry 3A/3B and at least ATAR: Mathematics Applications or TEE: Discrete Mathematics or WACE: Mathematics 2C/2D. Students not undertaking these recommended subjects will need to take additional units in their first year at university.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Special Requirements:**

Students undertaking units in Marine Science will not be required to kill any vertebrate animal but they will be required to work with fresh tissue from dead animals in certain units.

### **Employment Prospects:**

Through a combination of required and elective units, students can direct their studies towards employment opportunities in marine environmental management, fisheries, aquaculture, the offshore oil and gas industry, tourism and recreation, marine biotechnology, biodiversity conservation and marine ecology.

### **Recommended Double Majors:**

Biological Sciences; Conservation and Wildlife Biology; Environmental Science

### **Recommended Minors:**

Applied Statistics; Fisheries Science; Marine Biology

### **Main Research Areas:**

Marine biology and ecology, fisheries science, coastal and marine management, oceanography, marine pollution, marine biodiversity conservation, marine biotechnology, hydrodynamics, air-sea

interaction.

#### **Course Commencement:**

Students are advised that a Semester 1 intake is preferred. A Semester 2 start will require 3.5 years to complete.

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

#### **Mathematics Background**

Students need to have completed one of the following within the past three years:

Mathematics Applications ATAR (or Mathematics 2C/2D) with a final scaled score of 55 percent or more

OR

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Part II - 48 credit points**

##### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30

credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 12 credit points**

BIO244 Animal Speciation, Radiation, Evolution - 3 points  
MURDOCH: S2-internal

BIO254 Marine Botany - 3 points  
MURDOCH: S1-internal

ENV244 Oceanography and Marine Pollution - 3 points  
MURDOCH: S2-internal (quota of 50 places)

ENV242 Atmospheric Science - 3 points  
MURDOCH: S1-internal, S1-external

##### **General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each

major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Core Units - 6 credit points**

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV333 Coastal and Marine Management - 3 points  
<span data-type="offering" data-unit="ENV333">MURDOCH:  
S2-internal (quota of 60 places)</span>

#### **General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Research Skills Unit List**

##### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

##### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

##### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

##### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal



**Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

**Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

**Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

**Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

### **MARINE SCIENCE HONOURS (BSC(HONS))**

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Marine Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

#### **Employment Prospects:**

Employment opportunities exist in marine environmental management, fisheries, aquaculture, the offshore oil and gas industry, tourism and recreation, oceanography, marine biotechnology, biodiversity conservation and marine ecology.

#### **Main Research Areas:**

Marine biology and ecology, fisheries science, air-sea interaction, coastal and marine management, environmental management, pollution, marine conservation, marine biotechnology, oceanography, hydrodynamics.

### **Course Structure - 24 credit points**

#### **Coursework - 3 credit points**

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Thesis - 21 credit points**

VLS555 Honours Thesis in Marine Science - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## **MARKETING**

#### **See also:**

Public Relations

### **MARKETING (BBUS)**

School of Business and Governance

*Bachelor of Business (BBus) in Marketing*

Course Codes: B1318

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### **Parent Major:**

Bachelor of Business

Marketing is about providing value for customers, organisations and the community. It is about understanding market trends, and developing sustainable competitive strategies for products and services to satisfy customers' profitability. The Marketing major provides the required knowledge and skills, which all types of employers (private, public and voluntary sectors) look for. Typical job destinations are in brand management, retail and distribution management, marketing communications, market research and development of marketing strategy plans. Units offered cover a number of interesting topics such as Services Marketing,

International Marketing, Media Communications and Consumer Behaviour. All marketing theory is brought to life by case studies and strategic marketing projects (capstone 3rd year).

A Bachelor of Business provides a broad understanding of individual, organisational and societal issues. You will have the practical skills to identify business opportunities, analyse problems and implement solutions and you will be able to demonstrate a knowledge of business principles across key functional areas. You will have depth of knowledge in one or more business disciplines: accounting, banking, business law, economics, finance, hospitality and tourism management, human resources management, international business, management, and marketing.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

**Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Companies, government departments and not for profit organisations have marketing departments. Job categories within marketing departments include: product and brand management, market research and analysis, advertising and promotion, online communications and distribution planning. A marketing major also prepares graduates for careers in commercial consulting and business administration in all industry sectors.

**Professional Recognition:**

Students completing the Marketing major are eligible for membership of the Australian Marketing Institute.

**Recommended Double Majors:**

Accounting; Banking; Economics; Finance; Hospitality and Tourism Management; Human Resources Management; International Business; Management

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 12 credit points**

BUS130 Foundational Mathematics for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS176 Foundations of Management and Governance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS171 Foundations of Economics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BUS183 Foundations of Marketing - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 6 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

BBS200 Understanding Business Research: An Introductory Approach - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 9 credit points**

BUS296 Services Marketing - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS299 Consumer Behaviour - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS210 Marketing Research and Analysis - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

BBS300 Empirical Research Methods for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

BBS301 Applying Mixed Methods Research to Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Core Units - 9 credit points**

BUS343 International Marketing - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS350 Strategic Marketing - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

BUS302 Integrated Marketing Communications - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description. Recommend electives:

BUS358 Professional Internship in Business - 9 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BUS267 Work-Based Learning - 3 points  
<span data-type="offering" data-unit="BUS267">MURDOCH: S1-internal (quota of 50 places)</span>

## MARKETING HONOURS (BBUS(HONS))

School of Business and Governance

Bachelor of Business Honours (BBUS(Hons)) in Marketing

Course Codes: H1255

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average in units relating to the planned Honours study and a Distinction average overall. Subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

#### Core Units - 9 credit points

MBS516 Advanced Honours Topic A - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

MBS512 Advanced Honours Topic B - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

MBS517 Advanced Honours Research Preparation - 3 points  
 MURDOCH: S1-internal, S2-internal

#### Specified Electives - 3 credit points

Select from the following:

MBS619 Qualitative Organisational Research - 3 points

MBS659 Quantitative Research for Business - 3 points  
 MURDOCH: S1-internal, S1-external

### Thesis - 12 credit points

MBS519 Honours Thesis - 12 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

## MATHEMATICS AND STATISTICS

### MATHEMATICS AND STATISTICS (BSC)

School of Engineering and Information Technology

Bachelor of Science (BSc) in Mathematics and Statistics

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

### Parent Major:

Bachelor of Science (Non-IT Majors)

The focus of the Mathematics and Statistics major is on mathematical and statistical training for future employment in business, industry or government. Students may concentrate on mathematical modelling, with special emphasis given to methods and applications in the life and environmental sciences and engineering, or on applied statistics, with emphasis on methods and applications in the life and health sciences (biostatistics), the environment, commerce and industry, or students may wish to combine units from both areas. The major is designed to produce practical mathematicians and statisticians with a flexible outlook, a mix of technical skills, and an awareness of the modern uses of mathematics and statistics.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

Students completing the major externally should note that access to a suitable computer and software packages is required for some of the units.

### Employment Prospects:

This major trains students for future employment in banking, insurance, research and development, industry and government, in the computing, industrial mathematics, statistics and biostatistics areas. It provides an excellent preparation for careers in law, the health sciences, teaching and engineering when combined with studies in those areas. A shortage of numerate graduates makes mathematics and statistics graduates highly employable.

### Recommended Double Majors:

Biological Sciences; Biomedical Science; Chemistry; Computer Science; Economics; Environmental Science; Physics and Nanotechnology

### Excluded Minors:

Applied Statistics; Industrial and Applied Mathematics

### Main Research Areas:

Biostatistics, experimental design, fluid mechanics, harmonic analysis, industrial modelling, numerical analysis, robust statistics, signal processing.

## Major Prerequisites

### Mathematics Background

Students who have not achieved a final grade of Satisfactory in Mathematics Specialist ATAR (or Mathematics Specialist 3C/3D) may need to complete up to two prerequisite units depending on their mathematics background.

Mathematics Methods ATAR or Mathematics 3C/3D  
 and  
 Mathematics Specialist ATAR or Mathematics Specialist 3C/3D  
 OR

Mathematics Methods ATAR or Mathematics 3C/3D  
 and  
 MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

Mathematics Applications ATAR or Mathematics 2C/2D  
and  
MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

and

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

MAS162 Foundations of Discrete Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For Primary Majors in the Health Sciences, as listed

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points

MURDOCH: S2-internal

##### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Core Units - 9 credit points

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

Select one unit from the following, paying regard to planned 300-level unit choices:

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

Select an additional unit from the following, paying regard to planned 300-level unit choices:

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS225 Discrete Mathematics and Management Science - 3 points  
MURDOCH: S2-internal, S2-external

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Year 3 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### For Primary Majors in the Health Sciences, as listed

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If

taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Core Units - 9 credit points

Select from the following:

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Research Skills Unit List

#### Animal Health Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### Animal Science Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### Crop and Pasture Science

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### Biological Sciences Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### Conservation and Wildlife Biology Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

#### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points



MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## **MATHEMATICS AND STATISTICS HONOURS (BSC(HONS))**

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Mathematics and Statistics*  
Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 12 credit points**

MAS514 Research Methods in Mathematics and Statistics - 3 points  
MURDOCH: S1-internal, S2-internal

MAS511 Honours Topic in Statistics - 3 points  
MURDOCH: S1-internal, S2-internal

MAS512 Honours Topic in Mathematics - 3 points  
MURDOCH: S1-internal, S2-internal

MAS513 Honours Topic in Numerical Analysis - 3 points  
MURDOCH: S1-internal, S2-internal

#### **Thesis - 12 credit points**

MAS519 Honours Thesis in Mathematics and Statistics - 12 points  
MURDOCH: S1-internal, S2-internal

---

## **MINERAL SCIENCE**

#### **See also:**

Extractive Metallurgy

---

### **MINERAL SCIENCE (BSC)**

School of Engineering and Information Technology

*Bachelor of Science (BSc) in Mineral Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Science (Non-IT Majors)

Mineral extraction processes bridge applied science and engineering disciplines. Mineral scientists focus on the fundamental science of these processes. A Mineral Science degree offers the opportunity to train in interdisciplinary sciences by taking units in cognate disciplines.

This degree also caters for students with interests in mineral science, who wish to meet the requirements of double major degrees with Chemistry, Environmental Science or other disciplines such as Law and Management, or to continue towards a Bachelor of Engineering Honours in Chemical and Metallurgical Engineering degree. In addition, the three-year Bachelor of Science in Mineral Science degree is suitable for students wishing to develop the ability for creative, independent research by completing an additional one year research project to gain an Honours in Mineral Science degree, which is required for admission to the higher research degrees (i.e. Masters or PhD).

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with

industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

It is recommended that students entering this major have completed WACE Chemistry 3A/3B or Chemistry; ATAR, Physics 3A/3B and Mathematics: Specialist 3C/3D.

Applicants having other backgrounds will be considered for admission, but may need make-up units in first year, and therefore may need more than one year to complete Part I.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course can be completed internally or externally. Students enrolling in units that have a practical component must make allowance for on-campus attendance to complete the practical work. The on-campus sessions for external students are generally held in a one week block for each unit; the dates are published in each unit guide.

#### **Employment Prospects:**

Graduates can expect to find employment in mineral processing and metal extraction plants throughout Australia and overseas as plant and project metallurgists, mill superintendents, operations managers, consultants and researchers.

#### **Professional Accreditation:**

Recognised by the Australasian Institute of Mining and Metallurgy.

#### **Professional Recognition:**

Graduates are eligible for professional membership of the Australasian Institute of Mining and Metallurgy.

#### **Recommended Double Majors:**

Chemistry; Environmental Science; Mathematics and Statistics

#### **Main Research Areas:**

Chemistry; science; physics; mathematics; mineral; minerals; metal; metals; process; metallurgy; industrial; industrial process; extractive metallurgy; mining; geology; hydrometallurgy; pyrometallurgy.

### **Major Prerequisites**

#### **Chemistry Background**

Students may need to complete prerequisite units depending on their background in chemistry and their final scaled score in Chemistry 3A/3B or Chemistry ATAR within the past three years.

Chemistry 3A/3B or Chemistry ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry studies not stated above should consult the Academic Chair for clarification of their enrolment requirements.

#### **Mathematics Background**

Students may need to complete one prerequisite unit depending on their background in mathematics with either a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D) or a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) within the past three years.

Students without this background will need to complete as a bridging unit:

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

#### **Physics Background**

Students may need to complete prerequisite units depending on their background in physics and their final scaled score in Physics 3A/3B within the past three years.

Physics 3A/3B with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

ENG193 Introduction to the Minerals Industry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Part II - 48 credit points**

##### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

ENG202 Engineering Thermodynamics - 3 points  
MURDOCH: S1-internal, S1-external

ENG205 Process Mineralogy - 3 points  
MURDOCH: S1-internal, S1-external

ENG224 Principles of Unit Operations - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

ENG324 Principles of Mineral Processing - 3 points  
MURDOCH: S1-internal, S1-external

ENG325 Pyrometallurgy - 3 points  
MURDOCH: S1-internal, S1-external

ENG326 Hydrometallurgy - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points

MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH: S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points

MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points

MURDOCH: S1-internal

BMS218 Haematology - 3 points

<span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points

<span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

**Physics and Nanotechnology Major**

- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external
- ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external
- ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external
- ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal
- ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal
- ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external
- MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external
- BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

**Mathematics and Statistics Major**

- MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external
- ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external
- ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external
- ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

**Engineering Technology Major**

- MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external
- BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal
- BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external
- ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Mineral Science Major**

- ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external
- MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external
- BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal
- ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal
- BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal
- MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external
- MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external
- ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

**Marine Biology Major**

- BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external
- ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external
- BIO246 Microbiology - 3 points  
MURDOCH: S1-internal
- BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal
- MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external
- MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external
- BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

**MINERAL SCIENCE HONOURS (BSC(HONS))**

School of Engineering and Information Technology

*Bachelor of Science Honours (BSc(Hons)) in Mineral Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Students who have completed the three year BSc (Mineral Science) major may enrol in this Honours year. The Honours year is used to extend a student's grasp of the principles and practice of mineral science by undertaking a rigorous, research-based project. Mentoring by a member of staff enables Honours students to develop the ability for creative, independent research. Students are expected to be involved in the entire research process from concept through to writing and presenting the data obtained, along the way developing skills in advanced chemical technique, project management, high-level problem solving and communication of research findings to peers.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate

Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Employment Prospects:**

Graduates can expect to find employment in a range of areas associated with the Minerals Industry. Honours graduates are favourably looked upon by employers as successful completion of a year long project provides concrete evidence of chemical, project management, problem solving, and communication skills.

**Professional Recognition:**

Graduates may qualify for graduate membership of the Australasian Institute of Mining and Metallurgy.

**Course Structure - 24 credit points**

Students will undertake a major research project and thesis on a topic related to hydrometallurgy, pyrometallurgy or mineral processing and some advanced coursework.

**Coursework - 6 credit points**

CHE576 Literature Review - 3 points  
MURDOCH: S1-internal, S2-internal

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Thesis - 18 credit points**

ENG539 Honours Thesis in Mineral Science - 18 points  
MURDOCH: H-internal, Y-internal

---

**MISCELLANEOUS**

---

**DOUBLE DEGREE FIVE YEAR**

No Specific School

Course Codes: B1281

Duration: 5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

This course is intended to accommodate students who need to be formally enrolled in a double degree structure rather than registered with the University as intending to complete the requirements of two courses and two awards on completion. Students in the course must enrol in the two primary majors which reflect the courses they will complete. Students who require enrolment in this course must apply for transfer.

For further information, students should refer to individual course entries.

**Admission Requirements (Onshore):**

Direct admission is not available.

**Course Structure - 120 credit points**

Please refer to individual course structures.

---

**DOUBLE DEGREE FOUR YEAR**

No Specific School

Course Codes: B1280

Duration: 4 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

This course is intended to accommodate students who need to be formally enrolled in a double degree structure rather than registered with the University as intending to complete the requirements of two courses and two awards on completion. Students in the course must enrol in the two primary majors which reflect the courses they will complete. Students who require enrolment in this course must apply for transfer.

For further information, students should refer to individual course entries.

**Admission Requirements (Onshore):**

Direct admission is not available.

**Course Structure - 96 credit points**

Please refer to individual course structures.

---

**MOLECULAR BIOLOGY**

**See also:**

Biological Sciences

---

**GENETICS AND MOLECULAR BIOLOGY (BSC)**

School of Veterinary and Life Sciences

Bachelor of Science (BSc) in Genetics and Molecular Biology

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

The Genetics and Molecular Biology major is concerned with the structure and function of the molecules that are fundamental to life: DNA, RNA, proteins and metabolites. It provides the basis for the in depth study of organism function from genes through to phenotype, using cutting edge technologies. It also focuses on the importance of understanding the 'omics, including genomics, as well as the software tools needed to solve problems at the molecular level. These techniques have widespread application in all aspects of modern biology, including medicine, forensic science, conservation biology and agriculture.

From the perspective of the fundamental disciplines of biochemistry and microbiology, the Genetics and Molecular Biology major at Murdoch provides in-depth study of modern molecular science and introduces students to the scientific techniques associated with gene and protein expression, and gene manipulation.

Students contemplating careers in medical research are strongly recommended to undertake a Genetics and Molecular Biology/Biomedical Science double major. This is also good preparation for entry into Graduate Medicine.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical

experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. There are no prerequisites for admission but it is highly desirable for students to have studied TEE Chemistry or ATAR Chemistry and Mathematics Applications ATAR.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Students undertaking units in Genetics and Molecular Biology will not be required to kill any vertebrate animal but they will be required to work with fresh tissue from dead animals in certain units.

#### **Employment Prospects:**

Geneticists and molecular biologists are in high demand in hospitals, research organisations such as the CSIRO and medical research centres, university and agriculture departments and in biotechnology and food processing companies.

#### **Recommended Double Majors:**

Biological Sciences; Biomedical Science; Conservation and Wildlife Biology; Forensic Biology and Toxicology

#### **Excluded Minors:**

Molecular Biology

### **Major Prerequisites**

#### **Chemistry Background**

Students who achieved a final scaled score of 60 percent or more in ATAR Chemistry or Chemistry within the past three years should seek an exemption from their Academic Chair for CHE140 Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject

to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### **For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### **Core Units - 9 credit points**

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

OR

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points



MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

BIO356 Genetics and Evolution - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO378 Systems Biology - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Recommended General Electives**

VLS300 Projects in Veterinary and Life Sciences - 3 points  
MURDOCH: U-internal

**Research Skills Unit List**

**Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points

<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

#### Engineering Technology Major

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### Mineral Science Major

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### Marine Biology Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## MOLECULAR BIOLOGY HONOURS (BSC(HONS))

School of Veterinary and Life Sciences

Bachelor of Science Honours (BSc(Hons)) in Molecular Biology

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research, and to facilitate their entry into industry employment.

An Honours qualification of at least 2A is normally required for admission to higher research degree study.

#### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Apply Online:

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Course Structure - 24 credit points

#### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Thesis - 21 credit points

VLS530 Honours Thesis in Molecular Biology - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

## NURSING

### NURSING (BNURS)

School of Health Professions

Bachelor of Nursing (BNurs)

Course Codes: B1308

Duration: 3 years full-time or part-time equivalent, requiring study in both summer and winter terms. Students must complete within 6 years to be eligible for Nursing registration.

#### Availability:

- Mandurah campus (internal) (not available to new admissions)
- Some units only: Murdoch campus (internal) (not available to new admissions)

Restriction: Enrolment is subject to restriction due to limited equipment and facilities, and professional recognition requirements.

This course will prepare graduates for registration as Registered Nurses within Australia and allow professional practice in a variety of clinical settings. The course centres learning on the concept of a

professional therapeutic nurse/client relationship and takes into account individual, contextual and modifying factors in understanding and planning nursing care. Early studies emphasise the understanding of nursing processes, legal, ethical, evidence based care and bioscience principles that lead to the development of the fundamental skills and knowledge that are the basis for nursing practice. These form the foundation for later studies which focus on the complexities of competence and knowledge required to ensure optimal outcomes when providing nursing care to individuals, families and communities. Extensive workplace consolidation of theory to practice and experiential learning opportunities will be features of the course in developing highly competent and sought after graduates.

Students will be required to participate in clinical placements in a variety of locations and clinical contexts throughout metropolitan, rural and regional Western Australia.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements, plus a clear National Police Clearance. Recommended subjects: Human Biological Science 2A/2B, Mathematics 2A/2B, English 2A/2B and Chemistry 2A/2B.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.5.

#### **Special Requirements:**

A National Police Clearance is required as well as a level of health suitable to meet the requirements of such a course and to meet safe nursing practice. On commencement, students will be required to meet WA Department of Health vaccination requirements, students will be required to provide copies of a current CPR certificate, Working with Children Card, Department of Health WA Criminal Screening Card and Manual Handling Certificate and successful completion of the School of Health Professions Maths Competencies.

Potential students who have medical conditions, disabilities or who are concerned about their ability to meet the practical requirements of the course, should review the Inherent Requirements for Nursing on the Murdoch website prior to enrolling.

#### **Employment Prospects:**

There is a shortage of registered nurses nationwide. A strong professional education in the essential areas of acute, chronic and preventative health care across the lifespan will facilitate job selection in Australia and many overseas countries where Australian nurses are sought.

#### **Professional Recognition:**

Graduates from this course will be eligible to apply to the Nurses and Midwives Board of Australia for registration in the category of Registered Nurse. At point of application to the Nurses and Midwives Board of Australia, graduates will need to provide proof of having met an IELTS score of at least 7 in each band, if their primary or secondary education took place in a country where English is not the native language. Results from tests completed more than two (2) years prior to application for registration will not be accepted.

For further information, students can go to:  
[www.nursingmidwiferyboard.gov.au](http://www.nursingmidwiferyboard.gov.au)

Students should note that the course must be completed within six years of commencement to be eligible for registration.

#### **Main Research Areas:**

Nursing principles and practice.

#### **Alternative Entry Pathways:**

An alternative entry pathway exists via the Nursing (Combination) from Challenger TAFE (Peel). This pathway will provide applicants

with advanced standing once they enter the Bachelor of Nursing.

### **Course Structure - 72 credit points**

Units in this structure may no longer be available at all course locations and, where appropriate, alternative units have been provided. Students are required to satisfy the total credit point value of both the degree and the major in order to graduate; this may require that additional units are taken, either as part of the major or as General Electives. To accommodate students impacted by this change, up to 2 credit points from the total credit point value of the degree (incorporating the major) may be waived. For further information, see [https://myanswers.custhelp.com/app/answers/detail/a\\_id/1017/](https://myanswers.custhelp.com/app/answers/detail/a_id/1017/)

#### **Part I - 26 credit points**

##### **Year 1 - 26 credit points**

##### **Transition Unit - 3 credit points**

From 2014, Foundation units will no longer be offered. Students who have not yet successfully completed a Foundation unit will be required to enrol in the following Transition Unit.

BNR100 Transition to Nursing Studies - 3 points  
MURDOCH: S1N-external, S2N-external  
MANDURAH: S1N-external, S2N-external

##### **Core Units - 23 credit points**

Students enrolled in this course before 2012 should refer to the course structure in place at that time. Students transferring to this course structure must contact the Academic Chair for advice on unit selection.

The following unit is no longer available - contact the Academic Chair for advice:

NUR100 Introduction to Nursing Practice - 3 points

OR

NUR112 Health Across the Lifespan 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

The following unit is no longer available - contact the Academic Chair for advice:

NUR103 Contemporary Nursing Practice - 3 points

OR

NUR114 Professional Nursing Practice 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

The following unit is no longer available - contact the Academic Chair for advice:

NUR149 Human Structure and Function 1 - 3 points

OR

NUR111 The Healthy Human Body 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

The following unit is no longer available - contact the Academic Chair for advice:

NUR151 Clinical Practice 1: Aged Care - 1 points

The following unit is no longer available - contact the Academic Chair for advice:

NUR152 Indigenous Health - 3 points

The following unit is no longer available - contact the Academic Chair for advice:

NUR153 Primary Health Care - 3 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR154 Human Structure and Function 2 - 3 points

OR

NUR121 The Healthy Human Body 2 - 3 points

MURDOCH: S2N-internal

MANDURAH: S2N-internal

The following unit is no longer available - contact the Academic

Chair for advice:

NUR105 Nursing Health Assessment and Physical Examination - 3 points

OR

NUR122 Health Across the Lifespan 2 - 3 points

MURDOCH: S2N-internal

MANDURAH: S2N-internal

The following unit is no longer available - contact the Academic

Chair for advice:

NUR155 Clinical Practice 2: Medical/Primary Health/Aged Care/Medical Rehabilitation - 1 points

4

## Part II - 46 credit points

### Year 2 - 25 credit points

#### Core Units - 25 credit points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR203 Acute Care 1 - 4 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR256 Medication Management for Nursing - 4 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR206 Contemporary Nursing Management of Mental Illness - 4 points

NUR257 Clinical Practice 3: Medical/Surgical/Mental

Health/Primary Health - 1 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR205 Acute Care 2 - 4 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR258 Applied Psychology for Nursing Practice - 3 points

The following unit is no longer available - contact the Academic

Chair for advice:

NUR259 Maternal, Child and Adolescent Nursing Care - 4 points

NUR262 Clinical Practice 4: Medical/Surgical/Mental

Health/Paediatrics/Maternity/Primary Health/Community

Paediatrics - 1 points

### Year 3 - 21 credit points

#### Core Units - 21 credit points

Students should note that they are required to enrol full-time in the final semester of study.

NUR305 Complex Care - 4 points

MANDURAH: S1N-internal

NUR363 Health Research and Evidence Based Nursing Care - 4

points

MANDURAH: S1N-internal

NUR364 Nursing Management of Chronic Illness - 4 points

MANDURAH: S1N-internal

NUR365 Professional Issues in Nursing Practice - 3 points

MANDURAH: S2N-internal

NUR366 Clinical Practice 5 - 3 points

MANDURAH: S2N-placement

NUR367 Clinical Practice 6 - 3 points

MANDURAH: S2N-placement

## NURSING (BNURS)

School of Health Professions

Bachelor of Nursing (BNurs) in Nursing

Course Codes: B1335

Duration: 3 years full-time or part-time equivalent, requiring study in both summer and winter terms. Students must complete within 6 years to be eligible for Nursing registration.

#### Availability:

- Murdoch campus (internal)
- Mandurah campus (internal)

Restriction: Enrolment is subject to restriction due to limited equipment and facilities, and professional recognition requirements.

#### Parent Major:

Bachelor of Nursing

This course will prepare graduates for registration as a Registered Nurse within Australia and allow professional practice in a variety of clinical settings. The course provides a learning environment that encourages a caring therapeutic relationship between the nurse and people in health and illness, supported through holistic evidence-based nursing practice. Workplace consolidation of theory to practice and experiential and simulated learning opportunities will be features of the course in developing highly competent and sought after graduates.

This course will prepare graduates for registration as a Registered Nurse within Australia and allow professional practice in a variety of clinical settings. The course provides a learning environment that encourages a caring therapeutic relationship between the nurse and people in health and illness, supported through holistic evidence-based nursing practice. Workplace consolidation of theory to practice and experiential and simulated learning opportunities will be features of the course in developing highly competent and sought after graduates.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements, plus a clear National Police Clearance and English language competencies as described below. Recommended subjects are: Human Biological Science ATAR, Maths Applications ATAR, and Chemistry ATAR.

1. ATAR pathway students will require a scaled mark of 50 or more in English, English Literature or English as an additional language or dialect (ATAR English) or equivalent English, OR

2. Alternative pathway students, including course transfers, must have English as their primary language and have attended and satisfactorily completed at least six years of primary and secondary education taught and assessed in English in a recognised country, including at least two years between years 7 and 12. Recognised countries include, Australia, Canada, New Zealand, Republic of Ireland, South Africa, United Kingdom and United States of America; OR

3. Demonstrated English competence via IELTS with a minimum overall score of 6.5 and a minimum score of 6.5 in each of the four components (listening, reading, writing and speaking) or an equivalent score in either the TOEFL iBT, PTE Academic or the OET English language tests.

#### Special Requirements:

A National Police Clearance is required as well as a level of health suitable to meet the requirements of such a course and to meet safe nursing practice. On commencement, students will be required to meet WA Department of Health vaccination requirements, students

will be required to provide copies of a current CPR certificate, Working with Children Card, Department of Health WA Criminal Screening Card and Manual Handling Certificate and successful completion of the School of Health Professions Maths Competency.

Potential students who have medical conditions, disabilities or who are concerned about their ability to meet the practical requirements of the course, should review the Inherent Requirements for Nursing on the Murdoch website prior to enrolling.

Students are required to have access to a smart device that is capable of using app-based software systems.

#### **Employment Prospects:**

There is a shortage of registered nurses nationwide. A strong professional education in the essential areas of acute, chronic and preventative health care across the lifespan will facilitate job selection in Australia and many overseas countries where Australian nurses are sought.

#### **Professional Accreditation:**

This course is accredited by the Australian Nursing and Midwifery Accreditation Council (ANMAC)

#### **Professional Recognition:**

Graduates from this course will be eligible to apply to the Nurses and Midwives Board of Australia for registration in the category of Registered Nurse. At point of application to the Nurses and Midwives Board of Australia, graduates will need to provide proof of having met an IELTS score of at least 7 in each band, if their primary or secondary education took place in a country where English is not the native language. Results from tests completed more than two (2) years prior to application for registration will not be accepted.

For further information, students can go to:  
[www.nursingmidwiferyboard.gov.au](http://www.nursingmidwiferyboard.gov.au)

Students should note that the course must be completed within six years of commencement to be eligible for registration.

#### **Main Research Areas:**

Nursing principles and practice.

#### **Campus Transfer:**

Students wishing to apply for a campus transfer at any time during their Bachelor of Nursing course must make a formal application through the Student Centre using the Nursing course transfer form. Applications are open from May to June and October to November via

<http://our.murdoch.edu.au/Student-life/Get-organised/Useful-forms/>  
This form must be accompanied by a statement regarding the reason for your request, along with supporting evidence (eg medical certificate, evidence of either hardship or compassionate grounds, change of address etc). Applications can only be considered if there are vacancies at the campus you wish to transfer to.

## **Course Structure - 81 credit points**

### **Part I - 27 credit points**

#### **Year 1 - 27 credit points**

##### **Transition Unit - 3 credit points**

BNR100 Transition to Nursing Studies - 3 points  
MURDOCH: S1N-external, S2N-external  
MANDURAH: S1N-external, S2N-external

##### **Breadth Unit for Degree - 3 credit points**

BNR150 Health and Human Behaviour - 3 points  
MURDOCH: S2N-external  
MANDURAH: S2N-external

### **Core Units - 21 credit points**

NUR111 The Healthy Human Body 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

NUR112 Health Across the Lifespan 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

NUR114 Professional Nursing Practice 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

NUR121 The Healthy Human Body 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR122 Health Across the Lifespan 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR123 Professional Nursing Practice 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR109 Clinical Practice 1/2 - 3 points  
MURDOCH: SS3-placement  
MANDURAH: SS3-placement

### **Part II - 54 credit points**

#### **Year 2 - 30 credit points**

##### **Research Skills Unit - 3 credit points**

BNR200 Evidence Based Nursing Practice - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

##### **Core Units - 27 credit points**

NUR231 Complexities of Health and Illness Across the Lifespan 1 - 3 points  
MURDOCH: S1N-external, S2N-internal  
MANDURAH: S1N-external, S2N-internal

NUR232 Case Based Inquiry Acute Care Perspectives 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

NUR233 Case Based Inquiry Community Perspectives 1 - 3 points  
MURDOCH: S1N-internal  
MANDURAH: S1N-internal

NUR239 Clinical Practice 3 - 3 points  
MURDOCH: W6-placement  
MANDURAH: W6-placement

NUR241 Complexities of Health and Illness Across the Lifespan 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR242 Case Based Inquiry Acute Care Perspectives 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR243 Case Based Inquiry Community Perspectives 2 - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR210 Indigenous Health and Cultural Diversity - 3 points  
MURDOCH: S2N-internal  
MANDURAH: S2N-internal

NUR249 Clinical Practice 4 - 3 points  
MURDOCH: SS3-placement  
MANDURAH: SS3-placement

#### **Year 3 - 24 credit points**

##### **Research Skills Unit - 3 credit points**

BNR359 Clinical Practice 5 Research Perspectives - 3 points  
Not available this year

### Core Units - 21 credit points

NUR369 Clinical Practice 6 - 3 points  
Not available this year

NUR352 Complexities of Health and Illness Across the Lifespan 3 - 3 points  
Not available this year

NUR353 Case Based Inquiry Complex Care Perspectives - 3 points  
Not available this year

NUR361 Professional Nursing Practice in a Complex World - 6 points  
Not available this year

NUR379 Clinical Practice 7: Transition to Registered Nurse - 3 points  
Not available this year

NUR389 Clinical Practice 8: Transition to Registered Nurse - 3 points  
Not available this year

## NURSING HONOURS (BNURS(HONS))

School of Health Professions

Bachelor of Nursing Honours (BNurs(Hons))

Course Codes: H1258

Duration: 1 year full-time or part-time equivalent, commencing Semester 1 only

### Availability:

- Murdoch campus (internal)
- Mandurah campus (internal)

The Bachelor of Nursing with Honours assists students to gain a greater depth of understanding in their chosen area of interest whilst developing the ability for independent research. This is achieved through undertaking coursework in research methodology in addition to a research project.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree in Nursing (AQF Level 7) with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School of Health Professions.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Course Structure - 24 credit points

#### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Thesis - 21 credit points

NUR569 Honours Thesis in Nursing - 21 points  
MURDOCH: S1-internal, S2-internal  
MANDURAH: S1-internal, S2-internal

## PHILOSOPHY

### PHILOSOPHY (BA)

School of Arts

Bachelor of Arts (BA) in Philosophy

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

### Parent Major:

Bachelor of Arts

Philosophy is the oldest academic discipline and the source from which the natural and human sciences have grown. The love of wisdom and the pursuit of truth are the greatest strength and the highest achievement of the human spirit. The study of philosophy does not always offer answers, but instead teaches us how to ask good questions; without a good question one does not know what counts as a good answer, or where to look for a good answer. This kind of study develops our critical and rational faculties, instils a positive sense of impartiality and fairness in considering the views of others, and fosters a cautious, reflective attitude toward those things whose comprehension may exceed our current opinions and beliefs.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

### Employment Prospects:

Students with a degree in philosophy are very attractive to employers in the public sector, the professions, and business who value the ability to organise and analyse data, and draw clear, sound judgements.

### Recommended Double Majors:

English and Creative Writing; Global Politics and Policy; History

### Excluded Minors:

Ethics; Philosophy

### Main Research Areas:

Ethics, hermeneutics, history of metaphysics, theories of mind, phenomenology, feminist philosophy.

### Languages and Writing Skills:

Philosophy students are strongly encouraged to include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek, all available at Murdoch.



**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

PHL130 Introduction to Philosophy - 3 points  
MURDOCH: S2-internal, S2-external

PHL131 Critical and Creative Thinking - 3 points  
MURDOCH: S1-internal, S1-external

**General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental****Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Unit - 3 credit points**

PHL205 Critical Metaphysics - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental****Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

PHL377 Life, Death and Meaning - 3 points  
MURDOCH: S1-internal, S1-external

PHL317 Meaning and Interpretation - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least one unit must be at 300 level.

PHL207 Existentialism - 3 points  
Not available this year

PHL209 Metaphors of Mind - 3 points  
MURDOCH: S2-internal, S2-external

PHL210 Applied and Professional Ethics - 3 points  
Not available this year

PHL315 Aesthetics - 3 points  
Not available this year

PHL316 Ancient Greek Ideas - 3 points  
MURDOCH: S2-internal, S2-external

PHL206 Moral and Political Philosophy - 3 points  
MURDOCH: S2-internal, S2-external

---

**PHILOSOPHY HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Philosophy

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART604 Advanced Research Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
 MURDOCH: S1-internal, S2-internal

PHL569 Honours Dissertation Preliminary - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

PHL582 Honours Topic in Philosophy - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

PHL589 Honours Thesis in Philosophy - 12 points  
 MURDOCH: S1-internal, S2-internal

4

**PHOTOGRAPHY****PHOTOGRAPHY (BA)**

School of Arts

Bachelor of Arts (BA) in Photography

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Arts

The Photography major provides students with a comprehensive set of practical photographic and digital imaging skills in combination with theoretical knowledge to enable them as photographers to develop their vision and progress their career. Students will have their practice informed by an in-depth study of the power and meaning of image and its cultural-historical context. Throughout the major students develop a thorough and culturally informed understanding of critical photographic design and theory. Students will also develop practical photographic skills through the rigorous development of numerous photographic graphic design projects. In addition students will be equipped with contemporary network and marketing skills key to their success as creative producers.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There are compulsory on-campus components in this major.

**Employment Prospects:**

Graduates of this major will be well suited to careers in a range of industries and fields such as fashion, journalism, publications, advertising, professional photographic agencies, corporations, art, government, etc.

**Professional Recognition:**

Upon entering industry application can be made to join various industry associations such as AAPP (Australian Accredited Professional Photographers), CAMS Photographer Accreditation Program or APA (Australian Photographers Association).

**Recommended Double Majors:**

Journalism; Screen Production

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

PHO124 Photography 1 - 3 points  
 MURDOCH: S1-internal, S2-internal

PHO101 Digital Imaging - 3 points  
 MURDOCH: S2-internal

IDD118 Introduction to Graphic Design - 3 points  
 MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
 MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

PHO203 Photography 2 - 3 points

MURDOCH: S1-internal

PHO204 Visual Literacy - 3 points  
MURDOCH: S1-internal

PHO202 Photo Documentary - 3 points  
MURDOCH: S2-internal

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 9 credit points**

PHO306 Advanced Photographic Studio - 3 points  
MURDOCH: S1-internal

PHO305 Photographic Culture - 3 points  
MURDOCH: S2-internal

PHO312 Media Projects - 3 points  
MURDOCH: S2-internal

OR

PHO330 Professional Placement in Digital Media - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## **PHOTOGRAPHY HONOURS (BA(HONS))**

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Photography*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research. In Photography, students have the option of doing a photography based production and exegesis.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the

same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## **Course Structure - 24 credit points**

### **Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PHO561 Honours Topic in Photography A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

PHO562 Honours Topic in Photography B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### **Thesis - 12 credit points**

PHO569 Honours Thesis in Photography - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## **PHYSICS AND NANOTECHNOLOGY**

### **PHYSICS AND NANOTECHNOLOGY (BSC)**

School of Engineering and Information Technology

*Bachelor of Science (BSc) in Physics and Nanotechnology*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

#### **Parent Major:**

Bachelor of Science (Non-IT Majors)

Physics has a long and distinguished history. It underpins our modern technology and can be found at the cutting edge of science in the field of nanotechnology.

The Physics and Nanotechnology major combines an essential core of classical and modern physics with units that provide the background for working in the rapidly developing area of nanoscience and nanotechnology. The three-year course covers mechanics and waves, quantum theory, electromagnetism, thermodynamics, the physics of materials and applications of nanotechnology. Study of these areas provides an understanding of natural processes, energy and materials not just at the macroscopic scale but also at the nanoscopic scale.

Students have the opportunity to extend their analytical and problem solving skills to related disciplines in areas such as Computer Science, Chemistry, Biology, Mathematical Modelling, Mathematics and Statistics, Ocean Science, Environmental Science, Sustainable/Renewable Energy or Science Communication. An additional year of study leads to an Honours degree, offering enhanced employment prospects and is the entry point into a Masters or Doctoral research degree.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your

understanding of the way in which science operates in relation to social, business, health and policy environments.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements. Students who have not completed the necessary mathematics or physics at WACE-level may be required to complete introductory units in first year.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Computer access with a CD-ROM drive or Internet access is essential. Email is essential.

#### **Employment Prospects:**

Graduates find employment in a wide variety of fields including universities, research institutions, government agencies and private companies in areas such as pure research, research and development, education, quality control, health and medical physics, environmental monitoring, meteorology and astronomy.

#### **Professional Recognition:**

This degree has been accredited by the Australian Institute of Physics. Students who have completed this degree can apply to the Academic Chair for membership to the Australian Institute of Physics and the Institute of Physics (UK).

#### **Recommended Double Majors:**

Chemistry; Computer Science; Mathematics and Statistics; Secondary Teaching (Science Combined Mathematics)

#### **Main Research Areas:**

Renewable energy, surface physics, thin films, and nanotechnology with applications in medicine, resources, environment and energy.

### **Major Prerequisites**

#### **Chemistry Background**

Students may need to complete prerequisite units depending upon their background in chemistry and their final scaled score in Chemistry 3A/3B or Chemistry ATAR within the past three years.

Chemistry 3A/3B or Chemistry ATAR with a final scaled score of 50 percent or more

OR

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous chemistry not stated above should consult their Academic Chair for clarification of their enrolment requirements.

#### **Mathematics Background**

Students may need to complete a prerequisite unit depending on their background in mathematics and their final scaled score in Mathematics Specialist ATAR or Mathematics Specialist units or the equivalent Applicable Mathematics and Calculus within the past four years.

Students need to achieve a Pass in  
MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

Mathematics Methods ATAR (or Mathematics 3A/3B/3C/3D)

OR

Students who achieve a minimum C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) TEE Calculus with a final scaled score of 55 percent or more may seek an exemption from MAS182 Applied Mathematics from their Academic Chair.

Students who do not meet the prerequisite conditions for MAS182 Applied Mathematics will need a PASS in

MAS164 Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

#### **Physics Background**

Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in WACE Physics 3A/3B within the past four years.

Students must achieve a C grade in Physics 3A/3B

OR

TEE Physics with a final scaled score of 60 percent or more

OR

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous physics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 15 credit points**

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
(Students who have not completed Physics 3A/3B will be required to undertake PEN120 General Physics prior to completing this unit.)

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
(Students who have not completed Mathematics: Specialist 3C/3D will be required to undertake MAS182 Applied Mathematics prior to completing this unit.)

ENG192 Energy, Mass and Flow - 3 points  
MURDOCH: S2-internal, S2-external

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **General Electives - 3 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a

second major or minor. Any recommended double majors and minors will be included in the major's description.

## Part II - 48 credit points

### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Year 2 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

#### For Primary Majors in the Health Sciences, as listed

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

#### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Core Units - 12 credit points

PEN231 Modern Physics - 3 points  
MURDOCH: S1-internal, S1-external

PEN202 Thermodynamics for Physics and Nanotechnology - 3 points  
MURDOCH: S2-internal, S2-external

PEN261 Applications of Nanotechnology - 3 points  
MURDOCH: S1-internal, S1-external

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

### General Electives - 6 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### For Primary Majors in the Health Sciences, as listed

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Core Units - 12 credit points

PEN317 Physics of Materials - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

OR

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

PEN332 Electromagnetism - 3 points  
MURDOCH: S1-internal, S1-external

PEN363 Experimental Physics and Nanotechnology - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 6 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Research Skills Unit List

#### Animal Health Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### Animal Science Major

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points

<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal



## PHYSICS AND NANOTECHNOLOGY HONOURS (BSC(HONS))

School of Engineering and Information Technology

Bachelor of Science Honours (BSc(Hons)) in Physics and Nanotechnology

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of Honours is to provide training in research and the development of higher-level skills. The student's grasp of the principles and practice of their subject will be extended and they will develop ability for independent research.

Successful completion of the Honours course is required for admission to research degrees (i.e. Masters or PhD degrees).

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### Professional Accreditation:

Australian Institute of Physics.

### Professional Recognition:

Institute of Physics (IOP)

### Main Research Areas:

Applied physics, nanotechnology and energy research.

## Course Structure - 24 credit points

### Coursework - 9 or 12 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PEN530 Advanced Topics in Physics and Nanotechnology:  
Theoretical - 3 points  
MURDOCH: S1-internal, S1-external

PEN523 Advanced Topics in Physics and Nanotechnology:  
Experimental - 3 points  
MURDOCH: S2-internal, S2-external

If completing 12 credit points, select from any 500-level unit in the relevant discipline, approved by the Academic Chair.

### Thesis - 12 or 15 credit points

PEN589 Honours Thesis in Physics and Nanotechnology - 12 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
Y-internal, Y-external

OR

PEN599 Honours Thesis in Physics and Nanotechnology - 15 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
Y-internal, Y-external

## POLITICS AND INTERNATIONAL STUDIES

### See also:

International Business

Security, Terrorism and Counterterrorism

## GLOBAL POLITICS AND POLICY HONOURS (BA(HONS))

School of Business and Governance

Bachelor of Arts Honours (BA(Hons)) in Politics and International Studies

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean Learning and Teaching.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 12 credit points

#### Core Units - 9 credit points

POL501 Honours Research Seminar - 6 points  
MURDOCH: S1-internal, S1-external

POL500 Honours Topic in Global Politics and Policy - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
SUM-internal, SUM-external, U-internal, U-external

#### Elective Unit - 3 credit points

A 500-level unit, or a second enrolment in POL500 Honours Topic in Global Politics and Policy - 3 points, chosen in consultation with the Honours supervisor and Academic Chair.

### Thesis - 12 credit points

POL579 Honours Thesis in Global Politics and Policy - 12 points  
MURDOCH: S1-internal, S2-internal

## PSYCHOLOGY

### See also:

Counselling

Human Resources and Safety

## PSYCHOLOGY (BA)

School of Psychology and Exercise Science

Bachelor of Arts (BA) in Psychology

Course Codes: B1338

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Arts (Psychology Major)

Psychology is the study of human behaviour and mental processes. At Murdoch, we teach the established basis of psychological knowledge and methods integrated with the latest developments and exciting new trends in the field.

Psychology is a varied discipline encompassing many aspects of human behaviour from individual differences like personality and intelligence, to emotions, motivations, memory, and interpersonal relationships. Psychology is an applied discipline that is aligned to the professional career 'psychologist', but also offers a range of additional career options including community work, marketing, counselling, human resources, research, health, and rehabilitation to name just a few. Because of the alignment with psychology as a profession, this degree is externally accredited by the Australian Psychology Accreditation Council (APAC).

A degree in psychology equips students with broad theoretical and practical knowledge of psychology as well as job-ready skills in analysis, writing, research, communication, and teamwork.

The Bachelor of Arts (Psychology) allows students to focus more on the social and developmental sub-disciplines of psychology, and provides the option for students to undertake minors in related practical areas of study including criminal psychology, human resources, and ethics.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Psychology will be of special interest not only to those desiring to enter the psychology profession but also to students envisaging a practical or academic career in such fields as management, human resources, marketing, law, criminology, media studies, etc.

**Professional Accreditation:**

Australian Psychology Accreditation Council (APAC).

**Professional Recognition:**

The minimum academic qualification standard for provisional registration as a psychologist in Australia is a 4-year accredited sequence of study in psychology. As a 3-year course that is accredited by the Australian Psychology Accreditation Council (APAC), this degree may be built upon by students seeking professional recognition by the Psychology Board or Australia.

**Recommended Double Majors:**

Community Development; Criminology; Philosophy; Public Relations; Sociology

**Recommended Minors:**

Criminological Psychology; Ethics

**Excluded Majors:**

Psychology

**Excluded Minors:**

Social and Developmental Psychology

**Main Research Areas:**

Psychology

**Further Study:**

A fourth year of study is available in the form of an honours year BA(Hons) or Graduate Diploma in Psychology.

**Double Major:**

Students must seek approval from their Academic Chair prior to enrolling in a second major.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
OR (for Kaplan students only)

BBS100 Academic Skills for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
OR (for Kaplan students only)

BBS150 Transforming Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

PSY141 Introduction to Psychological Science - 3 points  
MURDOCH: S1-internal, S2-internal

PSY101 Introduction to Cultural Psychology - 3 points  
MURDOCH: S1-internal

PSY173 Introduction to Psychological Research Methods - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**Core Units - 12 credit points**

PSY286 Psychology: Human Development - 3 points  
MURDOCH: S1-internal

PSY251 Psychology: Biological Bases of Behaviour - 3 points  
MURDOCH: S1-internal

PSY285 Psychology: Social Bases of Behaviour - 3 points  
MURDOCH: S2-internal

PSY294 Psychology: Cognitive Processes - 3 points  
MURDOCH: S2-internal

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**Core Units - 9 credit points**

PSY388 Psychology: Abnormal Behaviour - 3 points  
MURDOCH: S2-internal

PSY392 Psychology: Family Relations and Social Development - 3 points  
MURDOCH: S2-internal

PSY391 Psychology: Individual Differences and Performance - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

**Recommended General Electives**

Recommended General Electives for Part II:

PSY287 Psychology: Self and Society - 3 points  
MURDOCH: S1-internal

PSY297 Psychology: Sensation and Perception - 3 points  
MURDOCH: S2-internal

PSY389 Psychology: Drugs and Dependence - 3 points  
MURDOCH: S1-internal

PSY393 Psychology: The Developing Mind - 3 points  
MURDOCH: S1-internal

PSY396 Psychology: Developmental Cognitive Neuroscience - 3 points  
MURDOCH: S2-internal

PSY380 Psychology: Psychological Research Placement - 3 points  
MURDOCH: S1-placement, S2-placement, Y-placement

**PSYCHOLOGY (BSC)**

School of Psychology and Exercise Science

*Bachelor of Science (BSc) in Psychology*

Course Codes: B1339

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science (Psychology Major)

Psychology is the study of human behaviour and mental processes. At Murdoch, we teach the established basis of psychological knowledge and methods integrated with the latest developments and exciting new trends in the field.

Psychology is a varied discipline encompassing many aspects of human behaviour from individual differences like personality and intelligence, to emotions, motivations, memory, and interpersonal relationships. Psychology is an applied discipline that is aligned to the professional career 'psychologist', but also offers a range of additional career options including community work, marketing, counselling, human resources, research, health, and rehabilitation to name just a few. Because of the alignment with psychology as a profession, this degree is externally accredited by the Australian Psychology Accreditation Council (APAC).

A degree in psychology equips students with broad theoretical and practical knowledge of psychology as well as job-ready skills in analysis, writing, research, communication, and teamwork.

The Bachelor of Science (Psychology) allows students to focus more on cognitive, neuroscience, and health sub-disciplines of psychology and provides the option for students to undertake a relevant minor such as sport psychology, human anatomy, or applied statistics.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Psychology will be of special interest not only to those desiring to enter the psychology profession but also to students envisaging a practical or academic career in such fields as management, human resources, marketing, law, criminology, media studies, etc.

**Professional Accreditation:**

Australian Psychology Accreditation Council (APAC).

**Professional Recognition:**

The minimum academic qualification standard for provisional registration as a psychologist in Australia is a 4-year accredited sequence of study in psychology. As a 3-year course that is accredited by the Australian Psychology Accreditation Council (APAC), this degree may be built upon by students seeking professional recognition by the Psychology Board or Australia.

**Recommended Double Majors:**

Community Development; Criminology; Philosophy; Public Relations; Sociology

**Recommended Minors:**

Applied Statistics; Human Anatomy; Sport Psychology

**Excluded Majors:**

Psychology

**Excluded Minors:**

Social and Developmental Psychology

**Main Research Areas:**

Psychology

**Further Study:**

A fourth year of study is available in the form of an honours year BSc(Hons) or Graduate Diploma in Psychology.

**Double Major:**

Students must seek approval from their Academic Chair prior to enrolling in a second major.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

PSY141 Introduction to Psychological Science - 3 points  
MURDOCH: S1-internal, S2-internal

PSY101 Introduction to Cultural Psychology - 3 points  
MURDOCH: S1-internal

PSY173 Introduction to Psychological Research Methods - 3 points  
MURDOCH: S2-internal

#### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites.

### Part II - 48 credit points

#### University-Wide Breadth Unit - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### Core Units - 12 credit points

PSY286 Psychology: Human Development - 3 points  
MURDOCH: S1-internal

PSY251 Psychology: Biological Bases of Behaviour - 3 points  
MURDOCH: S1-internal

PSY285 Psychology: Social Bases of Behaviour - 3 points  
MURDOCH: S2-internal

PSY294 Psychology: Cognitive Processes - 3 points  
MURDOCH: S2-internal

##### General Electives - 6 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

#### Year 3 - 21 credit points

##### Research Skills Unit - 3 credit points

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

##### Core Units - 9 credit points

PSY388 Psychology: Abnormal Behaviour - 3 points  
MURDOCH: S2-internal

PSY391 Psychology: Individual Differences and Performance - 3 points  
MURDOCH: S1-internal

PSY396 Psychology: Developmental Cognitive Neuroscience - 3 points  
MURDOCH: S2-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

#### Recommended General Electives

Recommended General Electives for Part II:

PSY287 Psychology: Self and Society - 3 points  
MURDOCH: S1-internal

PSY297 Psychology: Sensation and Perception - 3 points  
MURDOCH: S2-internal

PSY389 Psychology: Drugs and Dependence - 3 points  
MURDOCH: S1-internal

PSY392 Psychology: Family Relations and Social Development - 3 points  
MURDOCH: S2-internal

PSY393 Psychology: The Developing Mind - 3 points  
MURDOCH: S1-internal

PSY380 Psychology: Psychological Research Placement - 3 points  
MURDOCH: S1-placement, S2-placement, Y-placement

## PSYCHOLOGY (KAPLAN, SINGAPORE) (BA)

School of Psychology and Exercise Science

Bachelor of Arts (BA) in Psychology (Kaplan, Singapore)

Course Codes: B1338

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

#### Parent Major:

Bachelor of Arts (Psychology Major)

The study of psychology is a quest to understand behaviour, relationships, and the workings of the human mind. In this course, students will develop an appreciation of the foundations of psychological knowledge and how modern scientific research methods are used to further the understanding of our differences and similarities.

The BA (Social and Developmental Psychology) is designed to provide specialised knowledge of social, developmental, cultural, organisational, and qualitative perspectives in psychology. As such, it is ideal for students who wish to take a double major in a complementary field, such as management, human resources, marketing, law, criminology, media studies, etc. This major does not, in itself, constitute a professionally-accredited degree. Nonetheless, with the addition of only three further core units students are able to complete all the requirements of a three-year sequence fully accredited by the Australian Psychology Accreditation Council, and recognised by the Australian Psychological Society. Graduates are then able to proceed to a fourth year of study in psychology and to provisional registration as a Psychologist, or to further study at graduate level.

#### Admission Requirements (Offshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Psychology will be of special interest not only to those desiring to enter the psychology profession but also to students envisaging a practical or academic career in such fields as management, human resources, marketing, law, criminology, media studies, etc.

#### Professional Accreditation:

Students who wish to proceed to fourth and later years of study and/or be eligible for professional registration must complete three extra units mandated by the Australian Psychology Accreditation Council (APAC). Details are included in the structure of the major.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points

OR (for Kaplan students only)

BBS100 Academic Skills for Business - 3 points

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points

OR (for Kaplan students only)

BBS150 Transforming Business - 3 points

**Core Units - 9 credit points**PSY141 Introduction to Psychological Science - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY101 Introduction to Cultural Psychology - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY173 Introduction to Psychological Research Methods - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**BSC201 Psychology: Measurement, Design and Analysis - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal**Core Units - 9 credit points**PSY285 Psychology: Social Bases of Behaviour - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY286 Psychology: Human Development - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY287 Psychology: Self and Society - 3 points  
KAPLAN-SGP: TMA-internal, TSA-internal**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**BSC302 Advanced Quantitative Research Methods - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal**Core Units - 9 credit points**PSY391 Psychology: Individual Differences and Performance - 3 points  
KAPLAN-SGP: TSA-internalPSY392 Psychology: Family Relations and Social Development - 3 points  
KAPLAN-SGP: TSA-internalPSY393 Psychology: The Developing Mind - 3 points  
KAPLAN-SGP: TSA-internal**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Additional Professional Accreditation Requirements**

Students who wish to proceed to fourth and later years of study and/or be eligible for professional registration must complete the following units mandated by the Australian Psychology Accreditation Council (APAC)

PSY388 Psychology: Abnormal Behaviour - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY251 Psychology: Biological Bases of Behaviour - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internalPSY294 Psychology: Cognitive Processes - 3 points  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal**PSYCHOLOGY HONOURS (BA(HONS))**

School of Psychology and Exercise Science

Bachelor of Arts Honours (BA(Hons)) in Psychology

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the students' grasp of the principles and practice of their subject, and to develop their ability to conduct independent research.

The Honours course provides units in research design and the opportunity to carry out a piece of empirical research under supervision. The thesis and poster reporting the empirical research represent more than half of the (Honours) fourth year work.

An Honours qualification of 2A (or suitable equivalent) is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) with a major in psychology with a 3.0 GPA in Psychology units; subject to availability of supervisors and approval by the Academic Chair of the Honours program.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Employment Prospects:**

Psychology degrees will be of special interest not only to those desiring to enter the psychology profession but also to students envisaging employment and careers in fields which require a good understanding of human behaviour. Such careers may include health, education, ergonomics and human resource management.

**Professional Recognition:**

This is fully accredited by the Australian Psychology Accreditation Council (APAC), and recognised by the Australian Psychological Society (APS).

**Further Study:**

Successful completion of the Honours course (or suitable equivalent) is required for admission to research degrees (i.e. Masters or PhD degrees).

**Course Structure - 24 credit points****Coursework - 9 credit points**

PSY501 Psychology: Honours Seminar - 3 points  
MURDOCH: S1-internal

PSY598 Advanced Psychological Assessment - 3 points  
MURDOCH: S1-internal

PSY536 Psychology: Principles and Processes of Psychological Intervention - 3 points  
MURDOCH: S2-internal

**Thesis - 15 credit points**

PSY5078 BA Honours Thesis in Psychology - 15 points  
MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal

**Coursework - 9 credit points**

PSY501 Psychology: Honours Seminar - 3 points  
MURDOCH: S1-internal

PSY598 Advanced Psychological Assessment - 3 points  
MURDOCH: S1-internal

PSY536 Psychology: Principles and Processes of Psychological Intervention - 3 points  
MURDOCH: S2-internal

**Thesis - 15 credit points**

PSY5099 BSc Honours Thesis in Psychology - 15 points  
MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal

## 4

**PSYCHOLOGY HONOURS (BSC(HONS))**

School of Psychology and Exercise Science

Bachelor of Science Honours (BSc(Hons)) in Psychology

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the students' grasp of the principles and practice of their subject, and to develop their ability to conduct independent research.

The Honours course provides units in research design and the opportunity to carry out a piece of empirical research under supervision. The thesis and poster reporting the empirical research represent more than half of the (Honours) fourth year work.

An Honours qualification of 2A (or suitable equivalent) is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) with a major in psychology with a 3.0 GPA in Psychology units; subject to availability of supervisors and approval by the Academic Chair of the Honours program.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Employment Prospects:**

Psychology degrees will be of special interest not only to those desiring to enter the psychology profession but also to students envisaging employment and careers in fields which require a good understanding of human behaviour. Such careers may include health, education, ergonomics and human resource management.

**Professional Recognition:**

This is fully accredited by the Australian Psychology Accreditation Council (APAC), and recognised by the Australian Psychological Society (APS).

**Further Study:**

Successful completion of the Honours course (or suitable equivalent) is required for admission to research degrees (i.e. Masters or PhD degrees).

**Course Structure - 24 credit points****PUBLIC RELATIONS****See also:**

Journalism

**PUBLIC RELATIONS (BA)**

School of Arts

Bachelor of Arts (BA) in Public Relations

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

**Parent Major:**

Bachelor of Arts

This major aims to prepare students for careers in public relations and communications. It explores Australian and international theories and practices, with an emphasis on ethical communication and engagement with a diverse range of stakeholders. The major offers a combination of theoretical and practical components. Students are introduced to communication and public relations theory and are expected to develop critical thinking, evaluative and analytical skills. Communication skills including writing, public speaking, team work and conflict management are taught in addition to the research and evaluation of public relations strategies.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Graduates may follow careers in public relations and specialised areas such as public affairs, community relations, media liaison and online communication.

**Recommended Double Majors:**

Communication and Media Studies; Journalism; Web Communication

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

PRO101 Introduction to Social Media - 3 points  
MURDOCH: S2-internal  
DUBAI-ISC: TMD-internal

PRO107 Introduction to Public Relations - 3 points  
MURDOCH: S1-internal

##### General Electives - 12 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### Core Units - 9 credit points

PRO259 Media Relations - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

PRO285 Public Relations in Society - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

PRO204 Public Relations Strategy - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Year 3 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

##### Core Units - 9 credit points

PRO345 Issues and Crisis Management - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

PRO307 Campaign Management - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

AND EITHER

PRO302 Public Relations Project - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

OR

PRO325 Public Relations Internship - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## PUBLIC RELATIONS HONOURS (BA(HONS))

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Public Relations

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

##### Availability:

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the student's capacity for independent research. Potential students are invited to discuss their proposed research topic with the academic chair.

An Honours qualification of 2A is normally required for admission to higher research degree study.

##### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points**

**Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
 MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PRO561 Honours Topic in Public Relations A - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

PRO562 Honours Topic in Public Relations B - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

PRO569 Honours Thesis in Public Relations - 12 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

---

**RADIO**

---

**RADIO (BA)**

School of Arts

*Bachelor of Arts (BA) in Radio*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Arts

This major introduces students to live radio broadcasting and audio production in a range of creative formats. Students broadcast on Radio Fremantle and online, giving them a unique opportunity to experience radio production in a real-life industry environment. Students completing this major will be equipped with a wide range of skills covering broadcast journalism, radio reporting, presenting, producing, digital recording and editing. Students will also develop a range of skills in the wider digital content delivery landscape of the internet utilising multimedia production techniques. They will also have an understanding of how the industry operates and of the place of radio in the Australian and global media landscape.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Many of the production units in Radio are subject to quota. Entry to

Part II production units depends on students' performance (C grade average) in the Part I production unit prerequisites. In certain instances, and at the discretion of the Academic Chair, the Part I prerequisite may be waived for students with previous production experience.

**Employment Prospects:**

Graduates in radio have progressed to successful careers in all aspects of media work both in Australia and abroad. The broad-ranging skills acquired during the course of the degree prepares graduates equally well for media production as for media-based roles in government, business and education. With genuine live-to-air experience and audio digital production skills, as well as theoretical knowledge about broadcast policy and audiences, radio graduates are prepared for a wide range of on-air and off-air roles in the broadcasting industries.

**Recommended Double Majors:**

Journalism; Sound

**Excluded Minors:**

Radio

**Main Research Areas:**

Radio production, online radio, digital radio, broadcast journalism, broadcast policy, audiences.

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

RAD105 Introduction to Radio - 3 points  
 MURDOCH: S2-internal

SOU169 Introduction to Sound Studies - 3 points  
 MURDOCH: S1-internal

SOU101 Introduction to Audio Production - 3 points  
 MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental**



**Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

RAD244 Radio Presenting and Producing - 6 points  
MURDOCH: S1-internal

JOU245 Media Law and Ethics - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

RAD301 Creative Radio - 3 points  
MURDOCH: S2-internal

RAD374 Popular Music - 3 points  
MURDOCH: S2-internal

RAD316 Radio Projects - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Students with good academic records with a course GPA of 2.5 or higher can apply to the Academic Chair to take:

RAD325 Radio Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

---

**RADIO HONOURS (BA(HONS))**

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Radio*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research. In Radio, students have the option of doing a radio based production and exegesis.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

RAD561 Honours Topic in Radio A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

RAD562 Honours Topic in Radio B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

RAD569 Honours Thesis in Radio - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

---

**RELIGION****RELIGION (BA)**

School of Arts

*Bachelor of Arts (BA) in Religion*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Not currently available to new admissions

**Parent Major:**

Bachelor of Arts

Religion is a major in the Bachelor of Arts that takes a multidisciplinary approach to the investigation and understanding of religion in human societies. The aim is to examine the cultural and historical complexities of religion across a range of societies and historical periods. This type of exploration of religious beliefs and practices does not seek to assess their merits or truthfulness, but rather seeks to understand their origins, internal dynamics, and impacts on cultures and societies.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue

further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

A major in Religion provides an excellent range of critical, analytical skills. It also provides multicultural and multidisciplinary perspectives on vital aspects of human social structures and interactions. As such, a Religion major is an excellent basis for careers in public service, diplomatic service, education, non-profit organisations, multi-faith chaplaincy, and museums.

**Recommended Double Majors:**

Asian Studies; Community Development; Community Development (OUA); Global Politics and Policy; History; Philosophy; Security, Terrorism and Counterterrorism Studies; Security, Terrorism and Counterterrorism Studies (OUA)

**Course Structure - 72 credit points**

**Part I - 24 credit points**

**Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points

**Core Units - 6 credit points**

REL101 World Religions - 3 points

SOC134 Introduction to Sociology - 3 points

**General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points**

**University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points

**Core Unit - 3 credit points**

REL202 Faith, Conflict, and Human Rights - 3 points

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points**

**Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points

**Core Unit - 3 credit points**

REL311 Seminar in the Study of Religion - 3 points

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

In addition, Special Topics are available from time to time and may be used as a Specified Elective. Students should consult the Academic Chair to confirm the offering in any particular year.

REL207 Biblical Hebrew I - 3 points

REL208 Biblical Hebrew II - 3 points

REL209 New Testament Greek I - 3 points

REL306 World Religions in Historical Encounter - 3 points

REL204 Introduction to the Bible - 3 points

REL210 New Testament Greek II - 3 points

REL205 Mysteries, Magic, and Myths - 3 points

AST352 Culture and Religion in Asia - 3 points

REL312 Religion in the Ancient World - 3 points

SOC209 Religion and Society - 3 points

---

**RELIGION HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Religion

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability

for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points**

**Coursework - 12 credit points**

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

REL561 Honours Topic in Religion A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

REL562 Honours Topic in Religion B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

REL569 Honours Thesis in Religion - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

---

## SCREEN PRODUCTION

---

### SCREEN PRODUCTION (BA)

School of Arts

*Bachelor of Arts (BA) in Screen Production*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

**Parent Major:**

Bachelor of Arts

This major trains students to be film-makers. Students will learn current screen industry practices and their theoretical principles, including script-writing, producing, directing, cinematography, digital video editing, sound recording and design, post-production digital compositing, and photographic skills. Units cover a mix of screen practice and image theory, and students can choose one or two specific production pathways: drama or documentary. Students will engage in the film-making formats of documentary, drama, music-video, experimental, webisodes, television studio, and more.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or

the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Graduates can expect to find employment in a wide range of fields, from the creative industries (online, advertising, television, music, film) to management, administration, public policy, media research. Graduates will also have had ample opportunities to be familiar with a range of film and video crew functions such as screen-writing, producing, directing, editing, production design, digital compositing, lighting, cinematography, sound recording and design etc.

**Professional Recognition:**

Murdoch University is a member of the Australian Screen Production Education and Research Association.

**Recommended Double Majors:**

Communication and Media Studies; Journalism; Public Relations; Sound; Web Communication

**Excluded Minors:**

Screen Production

**Main Research Areas:**

Media studies; Australian indigenous media; creative industries; film; cinema; television; sound; new media; digital video; documentary; YouTube

**Quota:**

Some of the production units in Screen Production are subject to quota. In certain instances, and at the discretion of the Academic Chair, the Part I prerequisite may be waived for students with previous production experience.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

SCR100 Introduction to the Screen - 3 points  
MURDOCH: S2-internal, S2-external

SCR101 Screen Production 1 - 3 points  
MURDOCH: S1-internal, S2-internal

##### General Electives - 12 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30

credit points at Part I may be credited towards course completion requirements.

### **Year 2 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental**

##### **Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Unit - 3 credit points**

SCR200 Writing for the Screen - 3 points  
MURDOCH: S1-internal

#### **Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental**

##### **Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 6 credit points**

SCR320 Advanced Screen Production - 3 points  
MURDOCH: S2-internal

SCR348 Screen Text - 3 points  
MURDOCH: S2-internal, S2-external

#### **Specified Electives - 3 credit points**

Select from the Specified Elective Unit List below.

#### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Specified Elective Unit List**

Select Specified Electives from the following units during Years 2 and 3, subject to individual unit prerequisites. At least two units must be at 300 level.

#### **Drama Pathway**

SCR201 Screen Production 2 - 3 points  
MURDOCH: S1-internal

SCR222 Production Development - 3 points  
MURDOCH: S2-internal

SCR312 Professional Development - 3 points  
MURDOCH: S1-internal

#### **Documentary Pathway**

SCR300 Documentary - 3 points  
MURDOCH: S1-internal

SCR304 Documentary Production - 3 points  
MURDOCH: S2-internal

SCR303 Factual Production - 3 points  
MURDOCH: S1-internal

---

## **SCREEN PRODUCTION HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Screen Production

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research. In Screen Production, students have the option of doing a screen production and exegesis.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## **Course Structure - 24 credit points**

### **Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SCR561 Honours Topic in Screen Production A - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, Y-internal

SCR562 Honours Topic in Screen Production B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

### **Thesis - 12 credit points**

SCR569 Honours Thesis in Screen Production - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

## SECURITY, TERRORISM AND COUNTERTERRORISM

### SECURITY, TERRORISM AND COUNTERTERRORISM STUDIES (BA)

School of Business and Governance

Bachelor of Arts (BA) in Security, Terrorism and Counterterrorism Studies

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

The Security, Terrorism and Counterterrorism Studies (STCS) major focuses attention on the biggest security challenge in the 21st century - terrorism - and how best to deal with this challenge. It imparts specialised knowledge about the meaning, historical evolution and the causes of contemporary terrorism. It merges this knowledge with broader issues of international relations, geopolitics, and national, international and human security. By accepting the notion that terrorism poses an existential threat to many states and societies (particularly to the liberal democratic western states and societies), the course tries to train students to think about counterterrorism as a multi pronged response within the law to minimise or eradicate this threat to national, international and human security.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

#### Employment Prospects:

The knowledge and skills gained by students in this course opens up clear career pathways and challenging careers in government, such as in defence, intelligence, police, border protection, foreign affairs, and also in the private sector in various roles. It also opens up clear pathways to postgraduate studies (Masters and MPhil/PhD) and careers in research and academia.

#### Recommended Double Majors:

Global Politics and Policy; History; Sociology

#### Excluded Minors:

Security, Terrorism and Counterterrorism

#### Languages and Writing Skills:

Security, Terrorism and Counterterrorism students are strongly encouraged to include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that

students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek, all available at Murdoch.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

POL192 Perspectives on Security and Terrorism - 3 points  
MURDOCH: S1-internal, S1-external

POL161 Understanding International Politics - 3 points  
MURDOCH: S2-internal, S2-external

PHL131 Critical and Creative Thinking - 3 points  
MURDOCH: S1-internal, S1-external

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

POL234 Terrorism in a Globalised World - 3 points  
MURDOCH: S1-internal, S1-external

POL236 US Policies and Global Security - 3 points  
MURDOCH: S1-internal, S1-external

##### Specified Electives - 3 credit points

Select from the following:

POL237 Terrorism and Political Violence in South Asia - 3 points  
MURDOCH: S1-internal, S1-external

POL232 Military Force and Counterterrorism - 3 points  
MURDOCH: S2-internal, S2-external

POL219 Special Topic: From Al Qaeda to the Islamic State: Assessing Terror Threats - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Year 3 - 21 credit points

#### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### For Primary Major in Social and Developmental Psychology

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### For All Other Primary Majors

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Core Units - 6 credit points

POL335 Policing, Intelligence and Counterterrorism - 3 points  
MURDOCH: S1-internal, S1-external

POL345 International Security Studies - 3 points  
MURDOCH: S2-internal, S2-external

### Specified Electives - 3 credit points

Select from the following:

POL338 Politics and Security in South-East Asia: Terrorists, Gangsters and the State - 3 points  
MURDOCH: S2-internal, S2-external

POL334 Middle East Politics and Security - 3 points  
MURDOCH: S2-internal, S2-external

POL319 Special topic: Counterterrorism Polices & Practices - 3 points  
MURDOCH: S2-internal, S2-external

### General Electives - 9 credit points

Select from any 200 or 300 level units

## SOCIOLOGY

### SOCIOLOGY (BA)

School of Arts

Bachelor of Arts (BA) in Sociology

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

Sociology helps us to grasp the connections between the personal and the social in a global context. It helps us understand how changes in the structure of society, the material world (eg. Technology), the economy, cultural systems of beliefs and values, and access to power, influence us as members of society. Sociology

is particularly interested in class, gender, ethnicity, and religion. Sociological knowledge and skills are increasingly important in a wide range of professions and occupations, and provide a broader perspective for understanding the world.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

Skills in critical thinking, social research, policy analysis and project evaluation are crucial in numerous occupations. Sociology graduates are well suited to careers in local, state and federal public service, and in welfare, community, industrial and commercial organisations.

#### Recommended Double Majors:

Community Development; Community Development (OUA); Global Politics and Policy

#### Main Research Areas:

Social change and social equity.

#### Languages and Writing Skills:

Sociology students are strongly encouraged to include a writing unit in their selection of a general elective at either Part I or Part II. It is also recommended that students consider studying a language other than English, with Indonesian, Japanese, Biblical Hebrew and New Testament Greek all available at Murdoch.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

SOC134 Introduction to Sociology - 3 points  
MURDOCH: S1-internal, S1-external

COD125 Introduction to Community Development - 3 points  
MURDOCH: S1-internal, S1-external

##### General Electives - 12 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

SOC209 Religion and Society - 3 points  
MURDOCH: S1-internal, S1-external

OR

BRD201 Food Matters - 3 points  
MURDOCH: S2-internal, S2-external

SOC211 Sociology and the Modern World - 3 points  
MURDOCH: S1-internal, S1-external

SOC203 Youth Cultures - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

AST312 Anthropology, Society and Culture - 3 points  
MURDOCH: S1-internal, S1-external

SOC313 Health and Society - 3 points  
MURDOCH: S1-internal, S1-external

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University,

subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

---

**SOCIOLOGY HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Sociology

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

SOC561 Honours Topic in Sociology A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

SOC562 Honours Topic in Sociology B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

SOC569 Honours Thesis in Sociology - 12 points  
MURDOCH: S1-internal, S2-internal

---

**SOUND****SOUND (BA)**

School of Arts

Bachelor of Arts (BA) in Sound

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Arts

Sound incorporates the way sound is used both in media and in

everyday life. In music recording, film sound, game sound, and industrial sound design professionals create the recognisable sounds of the modern world and create new sounds.

This major focuses on the practice of contemporary sound design and production, combining a mix of theory and production in areas such as popular music, sound for film and games, studio recording, music technology, live sound and sound design.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course is only available to internal students at Murdoch campus since it is a production-based course which utilises the facilities at this campus.

#### **Employment Prospects:**

Music recording, editing, mixing and remixing; film and television sound recording, sound editing, sound mixing and sound design; sound design for interactive media, games and theatre; industrial sound design, radio production.

#### **Professional Recognition:**

Murdoch University is a member of the Australian Screen Production Education and Research Association.

#### **Recommended Double Majors:**

Radio; Screen Production

#### **Excluded Minors:**

Sound Production; Sound Studies

#### **Main Research Areas:**

Sound for film and television, sound design, music technology, recording studios, sound in interactive media.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 9 credit points**

RAD105 Introduction to Radio - 3 points  
MURDOCH: S2-internal

SOU169 Introduction to Sound Studies - 3 points  
MURDOCH: S1-internal

SOU101 Introduction to Audio Production - 3 points  
MURDOCH: S2-internal

### **General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

## **Part II - 48 credit points**

### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Year 2 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Core Units - 9 credit points**

SOU268 Music Technology - 3 points  
MURDOCH: S2-internal

SOU214 Sound Production - 3 points  
MURDOCH: S1-internal

RAD374 Popular Music - 3 points  
MURDOCH: S2-internal

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### **Core Units - 9 credit points**

SOU376 Sound Design - 3 points  
MURDOCH: S1-internal

SOU377 Soundtrack - 3 points  
MURDOCH: S2-internal

SOU378 Sound Projects - 3 points  
MURDOCH: S2-internal



**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Students with a good academic record with a course GPA of 2.5 or higher can apply to the Academic Chair to take:

SOU325 Sound Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

**SOUND HONOURS (BA(HONS))**

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Sound*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research. In Sound, students have the option of doing a sound based production and exegesis.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SOU561 Honours Topic in Sound A - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

SOU562 Honours Topic in Sound B - 3 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

SOU569 Honours Thesis in Sound - 12 points  
MURDOCH: S1-internal, S2-internal, Y-internal

**SPORTS SCIENCE****See also:**

Chiropractic  
Exercise Physiology

**MOVEMENT SCIENCE (BSC)**

School of Psychology and Exercise Science

*Bachelor of Science (BSc) in Movement Science*

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

**Parent Major:**

Bachelor of Science (Non-IT Majors)

Sport and in particular Exercise Science is a growing discipline within Australia and worldwide. Movement science focuses on the sub-disciplines of biomechanics and motor control. Students will develop knowledge and skills in both theoretical and practical settings that will allow them to assess and improve the movement of both athletes and individuals with neuromuscular skeletal diseases.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

A Working with Children Check may be required for some practical placements.

Students who are undertaking Sport and Health Science as a second major will complete EXS309 Exercise Science Practicum in place of the third year breadth unit.

**Employment Prospects:**

The range of workplace settings include: university sport science labs; academies of sport; institutes of sport; professional and amateur sporting clubs

**Professional Accreditation:**

Students who wish to register with Exercise and Sports Science Australia (ESSA) as an Exercise Scientist or enter into the Graduate Diploma of Clinical Exercise Physiology to become an Accredited Exercise Physiologist will be required to take a second major in Sport and Health Science.

**Recommended Double Majors:**

Sport and Health Science

**Main Research Areas:**

Sports Science, Exercise and Health Science, Exercise Physiology, Sports Psychology.

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points**

**Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

EXS124 Introduction to Sports Science - 3 points  
MURDOCH: S1-internal

EXS103 Strength and Resistance Training - 3 points  
MURDOCH: S2-internal

BMS101 Introduction to the Human Body - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For Primary Majors in the Health Sciences, as listed**

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

EXS204 Biomechanics I - 3 points  
MURDOCH: S2-internal

EXS206 Functional Human Anatomy - 3 points  
MURDOCH: S1-internal

EXS205 Acquisition of Skills and Motor Control - 3 points  
MURDOCH: S2-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

EXS306 Physical Assessment and Rehabilitation - 3 points  
MURDOCH: S1-internal

EXS305 Advanced Skills and Motor Control - 3 points  
MURDOCH: S1-internal

EXS304 Biomechanics II - 3 points  
MURDOCH: S2-internal

Students who wish to register with Exercise and Sports Science Australia as an Exercise Scientist or enter into the BSc (Exercise Physiology) to become an Accredited Exercise Physiologist will be required to take a second major in Sport and Health Science, and enrol in EXS309 Exercise Science Practicum - 3 points in lieu of the 3rd Year University Wide Breadth unit.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List****Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

#### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has

reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

#### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points  
MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

#### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

#### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

## SPORT AND HEALTH SCIENCE (BSC)

School of Psychology and Exercise Science

Bachelor of Science (BSc) in Sport and Health Science

Course Codes: B1317 B1317A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

### Parent Major:

Bachelor of Science (Non-IT Majors)

Sport, and in particular Exercise Science, is a growing discipline within Australia and worldwide. The Sport and Health Science major focuses on the sub-disciplines of Exercise Physiology and Sports Psychology. Students will develop knowledge and skills in both theoretical and practical settings that will enable them to prescribe exercise to healthy populations, including elite athletes, while understanding the psychological background to exercise and sport.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

A Working with Children Check will be required for some practical placements.

Students who are completing Movement Science as a second major will complete EXS309 Exercise Science Practicum in place of the third year breadth unit.

### Employment Prospects:

The range of workplace settings include: University sport science labs; academies of sport; institutes of sport; professional and amateur sporting clubs; and fitness clubs.

### Professional Accreditation:

Students who wish to register with Exercise and Sports Science Australia as an Exercise Scientist or enter into the Graduate Diploma in Clinical Exercise Physiology to become an Accredited Exercise Physiologist will be required to take a second major in Movement Science.

### Recommended Double Majors:

Movement Science

### Main Research Areas:

Sports Science, Exercise and Health Science, Biomechanics, Motor Control.

## Course Structure - 72 credit points

### Part I - 24 credit points

#### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BSC150 What is Science? - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

EXS102 Human Physiology - 3 points

MURDOCH: S2-internal

EXS124 Introduction to Sports Science - 3 points

MURDOCH: S1-internal

PSY172 Introduction to Psychological Health and Wellbeing - 3 points

MURDOCH: S2-internal

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### Part II - 48 credit points

#### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points

MURDOCH: S1-internal

##### For Primary Majors in the Health Sciences, as listed

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points

MURDOCH: S2-internal

##### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

EXS201 Sport and Exercise Psychology - 3 points  
MURDOCH: S1-internal

EXS202 Exercise Physiology I - 3 points  
MURDOCH: S1-internal

EXS203 Health, Fitness and Performance Assessment - 3 points  
MURDOCH: S1-internal

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Core Units - 9 credit points**

EXS302 Exercise Physiology II - 3 points  
MURDOCH: S2-internal

EXS301 Advanced Sport and Exercise Psychology - 3 points  
MURDOCH: S2-internal

EXS303 Exercise, Programming and Prescription - 3 points  
MURDOCH: S1-internal

Students who wish to register with Exercise and Sport Science Australia or enter into the BSc (Exercise Physiology) to become an Accredited Exercise Physiologist will be required to take a second major in Movement Science, and enrol in EXS309 Exercise Science Practicum - 3 points in lieu of the 3rd Year University Wide Breadth unit.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Research Skills Unit List****Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

CMS100 Introduction to Communication - 3 points  
MURDOCH: S1-internal, S1-external

**Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

**Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3

points

MURDOCH: S2-internal, S2-external

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>**Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points

MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points

MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points

MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points

MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>**Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

ENV332 Managing Wetlands and Water - 3 points

MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points

MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points

MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points

MURDOCH: S2-internal, S2-external

**Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points

<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points

<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60  
places)</span>

ENG341 Water Conservation and Auditing - 3 points

MURDOCH: S1-internal, S1-external

CMS100 Introduction to Communication - 3 points

MURDOCH: S1-internal, S1-external

BIO257 Australian Biodiversity - 3 points

MURDOCH: S2-internal

MAS182 Applied Mathematics - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points

MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3  
points

MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points



MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Genetics and Molecular Biology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
<span data-type="offering" data-unit="BMS327">MURDOCH:  
S2-internal (quota of 25 places)</span>

BIO367 Forensic Toxicology - 3 points  
MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
MURDOCH: S1-internal

BMS218 Haematology - 3 points  
<span data-type="offering" data-unit="BMS218">MURDOCH:  
S2-internal (quota of 66 places) (closed as the offering has  
reached capacity)</span>

BMS323 Clinical Biochemistry I - 3 points  
<span data-type="offering" data-unit="BMS323">MURDOCH:  
S2-internal (quota of 25 places)</span>

### **Chemistry Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3  
points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

### **Physics and Nanotechnology Major**

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points  
MURDOCH: S1-internal

ENG207 Principles of Electronic Instrumentation - 3 points  
MURDOCH: S2-internal

ICT319 Intelligent Systems - 3 points

MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

#### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points  
MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points  
MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points  
MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points  
MURDOCH: S2-internal, S2-external

#### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points  
MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

BEN200 Scientific Method in Engineering - 3 points  
MURDOCH: S1-internal

ENG299 Control Systems and Process Dynamics - 3 points  
MURDOCH: S2-internal

BEN300 Innovation and Ethics in Engineering - 3 points  
MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points  
MURDOCH: S2-internal

#### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

---

## **MOVEMENT SCIENCE HONOURS (BSC(HONS))**

School of Psychology and Exercise Science

*Bachelor of Science Honours (BSc(Hons)) in Movement Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of Honours is to extend the student's grasp of the principles and practice of the subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

#### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average; subject to availability of a suitable supervisor and approval by the Dean of School.

#### **Admission Requirements (Offshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average; subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

### **Course Structure - 24 credit points**

#### **Coursework - 9 credit points**

EXS691 Research Methods in Exercise and Rehabilitation Sciences - 9 points  
MURDOCH: S1-internal

#### **Thesis - 15 credit points**

EXS594 Honours Thesis in Movement Science - 15 points

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## **SPORT AND HEALTH SCIENCE HONOURS (BSC(HONS))**

School of Psychology and Exercise Science

*Bachelor of Science Honours (BSc(Hons)) in Sport and Health Science*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of Honours is to extend the student's grasp of the principles and practice of the subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

### **Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average; subject to availability of a suitable supervisor and approval by the Dean of School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Apply Online:**

Applications can be made online at <http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## **Course Structure - 24 credit points**

### **Coursework - 9 credit points**

EXS691 Research Methods in Exercise and Rehabilitation Sciences - 9 points

MURDOCH: S1-internal

### **Thesis - 15 credit points**

EXS593 Honours Thesis in Sports and Health Science - 15 points

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## **SUSTAINABILITY**

### **SUSTAINABLE DEVELOPMENT (BA)**

School of Business and Governance

*Bachelor of Arts (BA) in Sustainable Development*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

### **Parent Major:**

Bachelor of Arts

This course aims to train the next generation of sustainability leaders for world-changing work in Australia and overseas. Students explore the environmental, economic, social and cultural dimensions of sustainability, and develop a wide range of much-needed green skills. Areas covered include urban and rural sustainability, sustainability ethics and economics, and sustainable

lifestyles and behaviour change. The emphasis is on giving students the sustainability expertise needed to 'make a difference' within communities and regions and at the global level.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

### **Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Employment Prospects:**

There are increasing employment opportunities for graduates who are knowledgeable, skilled and passionate about sustainable development, at federal, state and local government, in non-government organisations, international agencies, corporations, local business and the media.

### **Recommended Double Majors:**

Community Development; Conservation and Wildlife Biology; Environmental Management and Sustainability; International Aid and Development

### **Excluded Minors:**

Environmental Issues

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

#### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Core Units - 6 credit points**

SUS100 Introduction to Sustainable Development - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

COD125 Introduction to Community Development - 3 points

MURDOCH: S1-internal, S1-external

#### **General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Recommended General elective:

BIO103 Introduction to Environmental Biology

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

SUS203 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

SUS207 Overseas Aid and International Development - 3 points  
MURDOCH: S1-internal, S1-external

ENV245 Global and Regional Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.  
Recommended General elective:

TOU221 Sustainable Tourism - 3 points  
MURDOCH: S1-internal, S1-external

AIS206 Country, Nature and Identity: Indigenous Sustainability - 3 points  
MURDOCH: S1-internal, S1-external

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 9 credit points**

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

SUS310 Sustainable Urban Communities - 3 points  
MURDOCH: S1-internal, S1-external

SUS301 Resilient Regions: Sustainability in Practice - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Recommended General Electives**

AST350 Society, Culture and Ecology in Asia - 3 points

MURDOCH: S1-internal, S1-external

SUS331 Sustainable Development Internship Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**SUSTAINABLE DEVELOPMENT HONOURS (BA(HONS))**

School of Business and Governance

Bachelor of Arts Honours (BA(Hons)) in Sustainable Development

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points****Core Units - 9 credit points**

POL501 Honours Research Seminar - 6 points  
MURDOCH: S1-internal, S1-external

SUS500 Honours Topic in Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

**Elective Units - 3 credit points**

Select from the following:

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

SUS523 Cities and Sustainability - 3 points  
MURDOCH: S1-internal, S1-external

COD505 Mining, Communities and Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

Or another 500-level unit chosen in consultation with the Honours supervisor and Academic Chair.

**Thesis - 12 credit points**

SUS501 Honours Thesis in Sustainable Development - 12 points  
MURDOCH: S1-internal, S2-internal

## THEATRE AND DRAMA

### THEATRE AND DRAMA (BA)

School of Arts

Bachelor of Arts (BA) in Theatre and Drama

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

#### Parent Major:

Bachelor of Arts

Theatre and Drama introduces students to a range of important theatrical and dramatic texts. It also provides students with the opportunity to develop skills in reading and responding to this material both creatively and critically. Students will develop a thorough understanding of the role and function of dramatic work and performance in a range of different social and cultural contexts. They will also learn about the important theoretical and philosophical frameworks supporting these art forms, and will be guided in the development of skills in acting, writing and production. Upon completion of the major, graduates will be skilled and confident in their ability to undertake critical and creative work in the fields of theatre production and performance.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

A Working with Children Check will be required for some practical components.

#### Employment Prospects:

Graduates may choose to pursue a career as a producer/director, actor, stage manager or scriptwriter, find jobs in the television and film industry or decide to enter the teaching profession. Some potential employers may be theatre/drama companies and radio/television networks.

#### Recommended Double Majors:

English and Creative Writing; Graphic Design

#### Excluded Minors:

Theatre and Drama

#### Main Research Areas:

Performance praxis; writing for the stage; contemporary acting theories; performance art; installation works; dance; design; directing; lighting and sound design; dramaturgy; and production and stage management.

#### On-Campus Study Requirement:

This course includes a number of compulsory on-campus components. For further information see individual unit descriptions or contact the School Office.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 6 credit points

EGL106 Drama, Theatre and Performance - 3 points  
MURDOCH: S2-internal

EGL121 Turning Points in Literature - 3 points  
MURDOCH: S1-internal, S1-external

##### General Electives - 12 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Social and Developmental Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For All Other Primary Majors

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Core Units - 9 credit points

EGL236 Performance and Creative Arts - 3 points  
MURDOCH: S2-internal

EGL239 Acting and Production - 3 points  
MURDOCH: S1-internal

EGL240 Children's Theatre - 3 points  
MURDOCH: S1-internal

##### General Electives - 9 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

##### Year 3 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Unit - 3 credit points**

EGL349 Advanced Studies in Theatre and Performance - 3 points  
MURDOCH: S2-internal

**Specified Electives - 6 credit points**

Select from the Specified Elective Unit List below.

**General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Specified Elective Unit List**

Select from the following:

EGL348 Shakespeare - 3 points  
MURDOCH: S2-internal, S2-external

EGL342 Comparative Theatre - 3 points  
MURDOCH: S1-internal

EDN304 Engaging Communities through Drama - 3 points  
MURDOCH: S2-internal

**THEATRE AND DRAMA HONOURS (BA(HONS))**

School of Arts

*Bachelor of Arts Honours (BA(Hons)) in Theatre and Drama*

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend student's grasp of the theoretical, conceptual and practical framework of their discipline, and to develop skills for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points****Coursework - 12 credit points**

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
MURDOCH: S1-internal, S2-internal

EGL569 Honours Dissertation Preliminary - 3 points  
MURDOCH: S1-internal

EGL581 Honours Topic in Theatre and Drama - 3 points  
MURDOCH: S1-internal

**Thesis - 12 credit points**

EGL589 Honours Thesis in Theatre and Drama - 12 points  
MURDOCH: S1-internal, S2-internal

**TOURISM AND EVENTS****TOURISM AND EVENTS (BA)**

School of Arts

*Bachelor of Arts (BA) in Tourism and Events*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
- Some units only: Murdoch campus (external) (all but one unit)

**Parent Major:**

Bachelor of Arts

Tourism and events, including festivals, are important social, political and economic phenomena in many parts of the world. The uniqueness of this degree is that it is offered from within the Social Sciences and is developed within the framework of tourism for sustainable development. Graduates of this degree will enter the workforce with knowledge of the wider tourism system, policy issues relating to tourism and events, and a wide understanding of the nature of socio/cultural, environmental and economic impacts of tourism and events.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

**Admission Requirements (Onshore):**

As per normal undergraduate admission requirements.

**Admission Requirements (Offshore):**

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Tourism and hospitality industry as tourism managers, events coordinators, event planners; local government in community development through tourism management and event planning, promotion and organising; state and federal government in tourism management and event development, promotion and evaluation.

**Recommended Double Majors:**

Public Relations; Sociology; Sustainable Development

**Excluded Minors:**

Events; Tourism

**Course Structure - 72 credit points****Part I - 24 credit points****Year 1 - 24 credit points****Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Core Units - 6 credit points**

TOU101 Introduction to Tourism Systems - 3 points  
MURDOCH: S1-internal, S1-external

TOU102 Travel and Tourism in Society - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**General Electives - 12 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**Part II - 48 credit points****University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Year 2 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Core Units - 6 credit points**

TOU221 Sustainable Tourism - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

POL246 Public Policy Analysis - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 12 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and

minors will be included in the major's description.

**Year 3 - 21 credit points****Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

**For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**Core Units - 9 credit points**

TOU323 Destination Management - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

TOU324 Events, Policy and Evaluation - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal, TSA-internal

TOU322 Tourism and Events Project - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

TOU230 Cultural Tourism Interpretation - 3 points  
MURDOCH: S2-internal, S2-external

TOU231 Indigenous Tourism Issues - 3 points  
Not available this year

ENV278 Nature-Based Tourism - 3 points  
MURDOCH: S1-internal, S1-external

TOU232 Festivals and Events - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

**General Electives - 6 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

**TOURISM AND EVENTS HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Tourism and Events

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the

same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points**

**Coursework - 12 credit points**

ART604 Advanced Research Methods - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART503 Honours Seminar in Arts - 3 points  
 MURDOCH: S1-internal, S2-internal

TOU561 Honours Topic in Tourism and Events A - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

TOU562 Honours Topic in Tourism and Events B - 3 points  
 MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

TOU569 Honours Thesis in Tourism and Events - 12 points  
 MURDOCH: S1-internal, S2-internal

4

---

## VETERINARY SCIENCE

---

### VETERINARY SCIENCE (BSC+DVM)

School of Veterinary and Life Sciences

*Bachelor of Science (BSc) in Veterinary Biology + Doctor of Veterinary Medicine (DVM)*

Course Codes: B1330 B1341

Duration: 5 years full-time

**Availability:**

- Murdoch campus (internal)

*Restriction: Enrolment is subject to restriction due to constraints on unit enrolments.*

Veterinary Science is a major health profession with its own system of education, registration, organisation and ethics. Veterinarians are highly trained in skills of diagnosing, treating and preventing health problems in pets, domestic livestock, wildlife and laboratory animals. Additional areas of interest for veterinarians are increasing the productivity of animals and maintaining standards of food production and safety, animal research and public health.

This integrated five-year course of study leads to a registrable professional qualification in veterinary medicine. A degree of Bachelor of Science is awarded after the successful completion of the first six semesters of the course and is a prerequisite for entry to the six trimesters of study that leads to the degree of Doctor of Veterinary Medicine (DVM).

There is an entry quota.

**Admission Requirements (Onshore):**

Students will be admitted into the five-year veterinary course either directly from secondary school for high ranking school-leavers or after completing prior university study.

Students with prior university study in a relevant discipline, may be granted advanced standing for the first year, and enter into second year, commencing on campus in January.

Australian students who have completed some tertiary study, and all international students, are selected on the following:

- \* Academic standing from previous university study (or school study for international school leavers);
- \* A 500-word typed and signed personal statement, and
- \* Evidence of recent, relevant, refereed animal-related experience, such as work experience with veterinarians.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

**Special Requirements:**

Veterinary Science is an animal-based course. Students are required to participate in practical work involving living and dead animals and/or tissues from animals throughout the course.

**Professional Recognition:**

Graduates are eligible for registration to practice veterinary medicine without further examination in Australia and a number of other countries including Great Britain, New Zealand, Malaysia, South Africa, Singapore and Hong Kong. The DVM degree is recognised by the American Veterinary Medical Association which, after passing the appropriate National or State licensing examinations, makes Murdoch graduates eligible to practice in the USA and Canada.

**Excluded Majors:**

Animal Health; Crop and Pasture Science

**Additional Academic Progress Requirements:**

Progression between years

Students must successfully complete all required Part I units in the first year of the BSc (Veterinary Biology) course, at the first attempt, to be guaranteed progression into the second year.

Students will not be permitted to enter the DVM component of the course until they have completed all units and unit components from the BSc (Veterinary Biology), or equivalent, and are eligible for the award of the BSc.

Students will not be eligible to enter the final year of the veterinary course without passing or having advanced standing for all units comprising the previous years of the veterinary course.

**Unit Fails and Withdrawals**

In the BSc component, students may fail no more than one unit in each year set of units (that is, the units normally undertaken in each calendar year of the course under standard full-time enrolment), regardless of whether these are completed in the same calendar year. Students who fail more than one unit in any year set of units, or who fail more than one unit in any one calendar year, will be excluded from the course after a formal interview process with the Academic Chair.

In the DVM component, students may fail no more than two units in each year set of units (that is, the units normally undertaken in each calendar year of the course under standard full-time enrolment), regardless of whether these are completed in the same calendar year. Students who fail more than two units from any year set of units, or who fail more than two units in any one calendar year, will be excluded from the course after a formal interview process with the Academic Chair.

A fail in any unit means that the unit will need to be repeated, whilst maintaining the minimal academic progression for completion of that component. Permission to overload will not be given to students who have failed a core unit.

Students have the option of withdrawing from a unit but should first discuss this with the relevant Academic Chair. Students who withdraw after the Census Date, or who fail a unit, can apply for



retrospective withdrawal.

Students failing units, withdrawing from units or obtaining retrospective withdrawal from units but NOT taking a period of intermission/approved leave must maintain the following minimal academic progression:

i) Students must complete the 2nd and 3rd years of the BSc in 3 or less calendar years.

ii) Students must complete the DVM component of the veterinary course in 4 or less calendar years.

Students taking a period of intermission/approved leave must maintain the following minimal academic progression:

i) Students must complete the 2nd and 3rd years of the BSc in 4 or less calendar years, including any period(s) of intermission/approved leave.

ii) Students must complete the DVM component of the veterinary course in 4 or less calendar years, including any period(s) of intermission/approved leave.

Students can withdraw after the start of a teaching period, or be granted retrospective withdrawal, from a unit only once.

Students attempting a unit for the second time must pass the unit at the first attempt. If a student withdraws after the start of a teaching period, or is granted retrospective withdrawal, from the same unit a second time, they will not be permitted a third enrolment in the unit.

Second year BSc students with advanced standing, or those repeating 2nd year units after failure, or withdrawal after the start of a teaching period, or retrospective withdrawal, may apply to the Academic Chair for permission to take one or two units from the 3rd year set of units in order to maintain a balanced load.

#### **Award with Distinction:**

Students who have completed the five year BSc/DVM at a high standard may be awarded their degree with Distinction or High Distinction. This is determined on the basis of overall marks in all core units over the five year course.

#### **Doctor of Veterinary Medicine:**

Students receive a BSc (Veterinary Biology) after the first six semesters of study and then progress into six trimesters, taken over two years, which leads to the integrated Bachelor of Science (Veterinary Biology) and Doctor of Veterinary Medicine (DVM) which is a registrable veterinary qualification.

The latter years are directed towards the acquisition of knowledge and skills required to diagnose, prevent and treat disease in animals and to optimise animal health and productivity.

Students may not progress into the Doctor of Veterinary Medicine component of the course until they have completed all units and unit components from Veterinary Biology (BSc), or equivalent, and are eligible for the award of the BSc.

---

### **Course Structure - 144 credit points**

#### **Veterinary Biology (BSc)**

The Veterinary Biology degree encompasses both normal and abnormal aspects of vertebrate structure and function. The first year comprises units which introduce the scientific process, analysis of data and the form and function of the animal body; units in the second year include information on animal development, structure, function, metabolism and an introduction to the principles of infectious disease; units in the third year cover animal nutrition and toxicology, animal behaviour, welfare and ethics, public health and epidemiology, pathology and the production of disease, and an

introduction to veterinary practice, surgery and anaesthesia.

A degree of Bachelor of Science (Veterinary Biology) is awarded after successful completion of two years of Part II studies. It is a basis for an extra 'side-step' year of research work in some aspect of veterinary biology, leading to an honours degree. However, it is expected that most students will proceed directly into the final two years to complete the DVM in the minimum time (5 years).

### **Course Structure - 72 credit points**

#### **Part I - 24 credit points**

##### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BSC100 Building Blocks for Science Students - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BSC150 What is Science? - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 18 credit points**

ANS102 Introduction to the Animal Body - 3 points

MURDOCH: S1-internal

CHE140 Fundamentals of Chemistry - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

(Students achieving at least 60 percent in WACE Chemistry will be exempt from this unit and must select another Part I unit in its place.)

ANS101 Introduction to Livestock Science and Genetics - 3 points

<span data-type="offering" data-unit="ANS101">MURDOCH: S2-internal, UA6-internal (closed)</span>

(Students who have not completed this unit MUST take this unit in the Summer teaching period, prior to entering second year.)

BMS107 Foundations of Vertebrate Form and Function - 3 points

MURDOCH: S2-internal

BIO152 Cell Biology - 3 points

MURDOCH: S2-internal

MAS183 Statistical Data Analysis - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Part II - 48 credit points**

##### **Year 2 - 24 credit points**

##### **Core Units - 24 credit points**

VET260 Veterinary Structure and Function I - 3 points

<span data-type="offering" data-unit="VET260">MURDOCH: S1-internal (quota of 110 places)</span>

VET271 Veterinary Structure and Function II - 3 points

<span data-type="offering" data-unit="VET271">MURDOCH: S1-internal (quota of 110 places)</span>

VET272 Comparative Mammalian Biochemistry - 3 points

MURDOCH: S1-internal

VET273 Veterinary Structure and Function III - 3 points

<span data-type="offering" data-unit="VET273">MURDOCH: S2-internal (quota of 110 places)</span>

VET210 Veterinary Professional Life I - 3 points

MURDOCH: Y-internal

VET274 Veterinary Structure and Function IV - 3 points

<span data-type="offering" data-unit="VET274">MURDOCH: S2-internal (quota of 100 places) (closed)</span>

VET211 Principles of Infectious Disease I - Veterinary

Microbiology - 3 points

MURDOCH: S2-internal

VET278 Principles of Infectious Disease II - Veterinary Parasitology

- 3 points  
MURDOCH: S2-internal

### Year 3 - 24 credit points

#### Core Units - 24 credit points

- VET375 Processes in Animal Disease - 3 points  
MURDOCH: S1-internal
- VET377 Systemic Pathology and Medicine - 6 points  
MURDOCH: S2-internal
- VET380 Veterinary Nutrition and Animal Toxicology - 3 points  
MURDOCH: S1-internal
- VET392 One Health - 3 points  
MURDOCH: S2-internal
- VET333 Animal Behaviour and Welfare - 3 points  
MURDOCH: S1-internal
- VET301 Principles of Surgery and Anaesthesia - 3 points  
MURDOCH: S2-internal
- VET331 Introduction to Clinical Practice - 3 points  
MURDOCH: S1-internal

### Applied Veterinary Medicine (DVM)

A further 6 trimesters of study over two years leads to a Masters level degree of Doctor of Veterinary Medicine (DVM) which is a registrable veterinary qualification.

The latter years are directed to the development of professional attributes and research skills, the acquisition of knowledge and skills required to diagnose, prevent and treat disease in animals and to optimise animal health and productivity.

### Course Structure - 72 credit points

#### Part II - 72 credit points

##### Year 4 - 36 credit points

#### Core Units - 36 credit points

- VET616 Veterinary Professional Investigation - 9 points  
MURDOCH: H-internal
- (This unit to be completed over Years 1 and 2 of the DVM with 3 points taken in Year 4 and 6 points in Year 5).
- VET607 Small Animal Surgery and Diagnostic Imaging - 3 points  
MURDOCH: ASP3-internal
- VET608 Equine General Practice - 4 points  
MURDOCH: ASP3-internal
- VET614 Small Animal Practice - 6 points  
MURDOCH: ASP3-internal
- VET615 Transition to Practice - 3 points  
MURDOCH: ASP3-internal
- VET632 Bovine Health and Management - 4 points  
MURDOCH: T1-internal
- VET633 Small Ruminant and Camelid Health and Management - 3 points  
MURDOCH: T1-internal
- VET635 Pig and Poultry Health and Management - 2 points  
MURDOCH: T1-internal
- VET637 Theriogenology - 3 points  
MURDOCH: Y-internal
- VET636 Avian, Wildlife and Exotic Pet Medicine - 2 points  
MURDOCH: T3-internal
- VET684 Veterinary Professional Life II - 12 points  
MURDOCH: H-internal

(This unit to be completed over Years 1 and 2 of the DVM, with 3 points in Year 4 and 9 points in Year 5).

##### Year 5 - 36 credit points

#### Core Units - 36 credit points

- VET617 Small Animal Practice 1 - 6 points  
Not available this year
- VET618 Equine Practice, After-hours, and Diagnostic Imaging - 3 points  
Not available this year
- VET687 Production Animal, Public Health and Pathology - 3 points  
Not available this year
- Plus one of the following:
- VET651 Advanced Topics in Mixed Animal Practice - 9 points  
Not available this year
- VET643 Advanced Topics in Equine Practice - 9 points  
Not available this year
- VET644 Advanced Topics in Production Animal Practice - 9 points  
Not available this year
- VET652 Advanced Topics in Small Animal Practice - 9 points  
Not available this year
- VET645 Advanced Topics in Wildlife, Zoological and Conservation Medicine - 9 points  
Not available this year
- VET646 Advanced Topics in Veterinary Science - 9 points  
Not available this year

### Additional Academic Progress Requirements

Progression between years

Students must successfully complete all required Part I units in the first year of the BSc (Veterinary Biology) course, at the first attempt, to be guaranteed progression into the second year.

Students will not be permitted to enter the DVM component of the course until they have completed all units and unit components from the BSc (Veterinary Biology), or equivalent, and are eligible for the award of the BSc.

Students will not be eligible to enter the final year of the veterinary course without passing or having advanced standing for all units comprising the previous years of the veterinary course.

#### Unit Fails and Withdrawals

In the BSc component, students may fail no more than one unit in each year set of units (that is, the units normally undertaken in each calendar year of the course under standard full-time enrolment), regardless of whether these are completed in the same calendar year. Students who fail more than one unit in any year set of units, or who fail more than one unit in any one calendar year, will be excluded from the course after a formal interview process with the Academic Chair.

In the DVM component, students may fail no more than two units in each year set of units (that is, the units normally undertaken in each calendar year of the course under standard full-time enrolment), regardless of whether these are completed in the same calendar year. Students who fail more than two units from any year set of units, or who fail more than two units in any one calendar year, will be excluded from the course after a formal interview process with the Academic Chair.

A fail in any unit means that the unit will need to be repeated, whilst maintaining the minimal academic progression for

completion of that component. Permission to overload will not be given to students who have failed a core unit.

Students have the option of withdrawing from a unit but should first discuss this with the relevant Academic Chair. Students who withdraw after the Census Date, or who fail a unit, can apply for retrospective withdrawal.

Students failing units, withdrawing from units or obtaining retrospective withdrawal from units but NOT taking a period of intermission/approved leave must maintain the following minimal academic progression:

i) Students must complete the 2nd and 3rd years of the BSc in 3 or less calendar years.

ii) Students must complete the DVM component of the veterinary course in 4 or less calendar years.

Students taking a period of intermission/approved leave must maintain the following minimal academic progression:

i) Students must complete the 2nd and 3rd years of the BSc in 4 or less calendar years, including any period(s) of intermission/approved leave.

ii) Students must complete the DVM component of the veterinary course in 4 or less calendar years, including any period(s) of intermission/approved leave.

Students can withdraw after the start of a teaching period, or be granted retrospective withdrawal, from a unit only once.

Students attempting a unit for the second time must pass the unit at the first attempt. If a student withdraws after the start of a teaching period, or is granted retrospective withdrawal, from the same unit a second time, they will not be permitted a third enrolment in the unit.

Second year BSc students with advanced standing, or those repeating 2nd year units after failure, or withdrawal after the start of a teaching period, or retrospective withdrawal, may apply to the Academic Chair for permission to take one or two units from the 3rd year set of units in order to maintain a balanced load.

---

## VETERINARY BIOLOGY HONOURS (BSC(HONS))

School of Veterinary and Life Sciences

*Bachelor of Science Honours (BSc(Hons)) in Veterinary Biology*

Course Codes: H1257

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

The aim of the Honours year is to extend the student's grasp of the principles and practice of their subject, to develop ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

Successful completion of the Honours course is required for admission to higher research degrees (i.e. Masters or PhD degrees).

### Admission Requirements (Onshore):

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Credit average (GPA 2); subject to availability of a suitable supervisor and approval by the School Dean.

Students interested in enrolling in Honours are advised to contact the Academic Chair before application to discuss supervision of their potential research project.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Apply Online:

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

## Course Structure - 24 credit points

### Coursework - 3 credit points

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Thesis - 21 credit points

VLS505 Honours Thesis in Veterinary Biology - 21 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

4

---

## WEB COMMUNICATION

### WEB COMMUNICATION (BA)

School of Arts

*Bachelor of Arts (BA) in Web Communication*

Course Codes: B1316 B1316A

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal)
- Some units only: Murdoch campus (external)

### Parent Major:

Bachelor of Arts

Web Communication combines an exciting mix of web design, digital marketing and public relations. Students will learn how to design and develop strategies for web communication campaigns using a range of digital media including, social media, websites, mobile technology, games, video and online news media. Students will learn all about conveying information and ideas using networks such as Facebook, Twitter and YouTube, powerful search engines such as Google and Yahoo and well-designed and written websites and blogs to deliver creatively planned strategic outcomes for organisations.

In the Bachelor of Arts you will develop a broad understanding of your field and proficiency in producing written and oral arguments and creative artefacts in response to social, human and natural phenomena. You will also develop a critical appreciation of the perspectives of others. As an Arts graduate you will be able to think critically and creatively, apply knowledge and information, and communicate effectively. These are professional skills which are critical across a range of industries. You will also be able to pursue further study in the fields of social research, the humanities and/or the creative arts.

### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

Graduates will be able to undertake a range of creative production

and strategic roles such as: web communications specialist; online PR and marketing consultant; SEO strategist; web-content strategist; e-commerce specialist; web producer; e-marketer; web studio account manager; and social media strategist, just to name a few.

#### **Professional Recognition:**

Murdoch University is a member of the Australian Screen Production Education and Research Association.

#### **Recommended Double Majors:**

Graphic Design; Journalism; Public Relations; Screen Production

#### **Excluded Minors:**

Web Strategy

#### **Main Research Areas:**

Online communication; online media production; online marketing and PR.

## **Course Structure - 72 credit points**

### **Part I - 24 credit points**

#### **Year 1 - 24 credit points**

##### **Transition Unit - 3 credit points**

BAR100 Academic Learning Skills - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Breadth Unit for Degree - 3 credit points**

BAR150 Ideas and Identity - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Core Units - 9 credit points**

PRO107 Introduction to Public Relations - 3 points  
MURDOCH: S1-internal

IDD118 Introduction to Graphic Design - 3 points  
MURDOCH: S2-internal

PRO101 Introduction to Social Media - 3 points  
MURDOCH: S2-internal

##### **General Electives - 9 credit points**

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Part II - 48 credit points**

#### **University-Wide Breadth Units - 6 credit points**

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

#### **Year 2 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### **For All Other Primary Majors**

BAR200 Developing Research Skills and Methods - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### **Core Units - 9 credit points**

WEB278 Web Strategy - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

WEB263 Web Design - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

CMS201 Screen: Small, Medium and Large - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### **Year 3 - 21 credit points**

##### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### **For Primary Major in Social and Developmental Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

##### **For All Other Primary Majors**

BAR300 Advanced Research in the Arts - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

##### **Core Units - 9 credit points**

WEB303 Business of Freelancing - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

OR

WEB325 Web Communication Professional Placement - 3 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

WEB302 Web Metrics - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

WEB301 Web Communication Project - 3 points  
MURDOCH: S1-internal, S2-internal  
KAPLAN-SGP: TMA-internal

##### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

---

## **WEB COMMUNICATION HONOURS (BA(HONS))**

School of Arts

Bachelor of Arts Honours (BA(Hons)) in Web Communication

Course Codes: H1256

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

The aim of Honours is to extend the student's grasp of the principles and practice of their subject, and to develop the ability for independent research.

An Honours qualification of 2A is normally required for admission to higher research degree study.

**Admission Requirements (Onshore):**

Completion of a Bachelor Degree (AQF Level 7) or equivalent in the same discipline or cognate area with a Distinction average; subject to availability of a suitable supervisor and approval by the Associate Dean (Learning and Teaching) of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Apply Online:**

Applications can be made online at  
<http://goto.murdoch.edu.au/OnlineApplicationsHonours>

**Course Structure - 24 credit points**

**Coursework - 12 credit points**

ART503 Honours Seminar in Arts - 3 points

MURDOCH: S1-internal, S2-internal

ART604 Advanced Research Methods - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

WEB561 Honours Topic in Web Communication A - 3 points

MURDOCH: S1-internal, S2-internal, Y-internal

WEB562 Honours Topic in Web Communication B - 3 points

MURDOCH: S1-internal, S2-internal, Y-internal

**Thesis - 12 credit points**

WEB569 Honours Thesis in Web Communication - 12 points

MURDOCH: S1-internal, S2-internal, Y-internal

# Minors

## **Cancellation of Courses, Majors, Minors and Units**

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

### Minor

---

3D Animation

---

Anthropology

---

Applied Animal Production

---

Applied Statistics

---

Asian Studies

---

Australian Indigenous Studies

---

Biomedical Science

---

Business Law

---

Communication

---

Computer Forensics and Computer Security

---

Computer Forensics and Information Security Policy

---

Creative Writing

---

Crime Science

---

Criminological Psychology

---

Critical and Human Security

---

Ecosystem Management

---

English and Literacy Education

---

Environmental Issues

---

Equine Science

---

Ethics

---

Events

---

Fisheries Science

---

Forensic Biology

---

Games Design

---

Gender Studies

---

Human Anatomy

---

Human Resources Management

---

Inclusive Education

---

Indonesian

---

Industrial and Applied Mathematics

---

International Aid and Development

---

Japanese

---

Journalism

---

Law and Justice

---

Literature

---

Marine Biology

---

Mathematics and Numeracy Education

---

Media Studies

---

Modern History

---

Molecular Biology

---

Nature Based Tourism

---

Network Design

---

Network Security

---

Neuroscience

---

Organic and Biological Chemistry

---

Philosophy

---

Photography

---

Plant Biology

---

5

**Minor****Politics****Popular Culture, Indigeneity and Nationhood****Print Design****Public Policy****Public Relations****Radio****Religion****Resource Management****Screen Production****Security, Terrorism and Counterterrorism****Social, Cultural and Literary Theory****Social Justice in Contemporary Culture****Social and Developmental Psychology****Sound Production****Sound Studies****Sport Psychology****Sustainability, Ecosystems and Community Development****Sustainable Development****Teaching Indonesian in Primary Schools****Teaching Japanese in Primary Schools****Theatre and Drama****Tourism****Waste and Water Management****Web Design****Web Development****Web Strategy****Wildlife Conservation**

---

## 3D ANIMATION

*School of Arts*

**Excluded Majors:**

Games Art and Design

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

GAD164 3D Modelling - 3 points  
MURDOCH: S1-internal

GAD154 Introduction to Games Art and Design - 3 points  
MURDOCH: S2-internal

**Part II - 6 credit points**

**Core Units - 6 credit points**

GAD241 Animation - 3 points  
MURDOCH: S1-internal

GAD365 3D Animation - 3 points  
MURDOCH: S2-internal

---

## ANTHROPOLOGY

*School of Arts*

**Minor Structure - 12 credit points**

**Part II - 12 credit points**

**Core Unit - 3 credit points**

AST312 Anthropology, Society and Culture - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 9 credit points**

Select from the following:

AS110 Introduction to Indigenous Popular Culture - 3 points  
MURDOCH: S2-internal, S2-external

AS206 Country, Nature and Identity: Indigenous Sustainability - 3 points  
MURDOCH: S1-internal, S1-external

AST350 Society, Culture and Ecology in Asia - 3 points  
MURDOCH: S1-internal, S1-external

AST352 Culture and Religion in Asia - 3 points  
MURDOCH: S1-internal, S1-external

AST288 Women in Asian Societies - 3 points  
MURDOCH: S2-internal, S2-external

SUS207 Overseas Aid and International Development - 3 points  
MURDOCH: S1-internal, S1-external

PHL317 Meaning and Interpretation - 3 points  
MURDOCH: S1-internal, S1-external

---

## APPLIED ANIMAL PRODUCTION

*School of Veterinary and Life Sciences*

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Core Unit - 3 credit points**

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points**

**Core Units - 9 credit points**

VET272 Comparative Mammalian Biochemistry - 3 points  
MURDOCH: S1-internal

ANS363 Applied Animal Agriculture - 3 points  
MURDOCH: Y-internal

ANS364 Applied Animal Breeding - 3 points  
MURDOCH: Y-internal

---

## APPLIED STATISTICS

*School of Engineering and Information Technology*

**Excluded Majors:**

Mathematics and Statistics

**Minor Structure - 12 credit points**

**Part I - 3 or 6 credit points**

**Core Unit - 3 credit points**

MAS183 Statistical Data Analysis - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Specified Electives - 0 or 3 credit points**

If this unit is not taken then an additional Part II Specified Elective must be taken.

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Part II - 6 or 9 credit points**

**Core Unit - 3 credit points**

MAS353 Statistical Design and Data Analysis - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 3 or 6 credit points**

Select from the following units. If a Part I Specified Elective was taken then select one unit, otherwise complete both.

MAS223 Applied Statistics - 3 points  
MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

---

## ASIAN STUDIES

*School of Arts*

**Excluded Majors:**

Asian Studies

**Minor Structure - 12 credit points**



**Part I - 3 credit points****Core Unit - 3 credit points**

AST102 Asian Centuries - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 9 credit points****Core Unit - 3 credit points**

AST281 Contemporary Asia - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

AST286 People's History of South-East Asia - 3 points  
Not available this year

AST288 Women in Asian Societies - 3 points  
MURDOCH: S2-internal, S2-external

AST350 Society, Culture and Ecology in Asia - 3 points  
MURDOCH: S1-internal, S1-external

AST352 Culture and Religion in Asia - 3 points  
MURDOCH: S1-internal, S1-external

JPN207 Love and Sexuality in Japan - 3 points  
MURDOCH: S2-internal, S2-external

HIS310 Modern Japan - 3 points  
Not available this year

IND371 Media, Culture and Politics in Indonesia - 3 points  
MURDOCH: S2-internal, S2-external

AST384 Asian Studies Project - 3 points  
MURDOCH: S1-internal, S2-external, SUM-external, U-external,  
W-external

HIS334 Peasants, Rebels and Leviathan: Modern Southeast Asian  
History - 3 points  
MURDOCH: S1-internal, S1-external

Up to 6 points of Murdoch based Indonesian or Japanese language  
units OR 12 points from Semester in Indonesia or Semester in  
Japan may be credited to the Asian Studies minor.

**AUSTRALIAN INDIGENOUS STUDIES****School of Arts****Excluded Majors:**

Australian Indigenous Studies

**Minor Structure - 12 credit points****Part I - 3 credit points****Specified Electives - 3 credit points**

AIS180 Introduction to Australian Indigenous Studies - 3 points  
MURDOCH: S1-internal, S1-external

OR

AIS110 Introduction to Indigenous Popular Culture - 3 points  
MURDOCH: S2-internal, S2-external

**Part II - 9 credit points****Core Units - 3 credit points**

AIS204 Indigenous Australia and the Nation - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 6 credit points**

Select from the following:

AIS206 Country, Nature and Identity: Indigenous Sustainability - 3  
points  
MURDOCH: S1-internal, S1-external

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points  
MURDOCH: S2-internal, S2-external

AIS356 Reading Reconciliation - 3 points  
MURDOCH: S2-internal, S2-external

**BIOMEDICAL SCIENCE****School of Veterinary and Life Sciences****Excluded Majors:**

Biomedical Science; Laboratory Medicine

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points****Core Units - 9 credit points**

BMS206 Biomedical Physiology - 3 points  
MURDOCH: S1-internal

BMS212 Medical Microbiology - 3 points  
MURDOCH: S1-internal

BMS314 Pathological Basis of Disease - 3 points  
MURDOCH: S1-internal

**BUSINESS LAW****School of Law****Excluded Majors:**

Business Law; Law + Business [Combined]

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

BSL165 Foundations of Business Law - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

**Part II - 9 credit points****Specified Electives - 9 credit points**

Select from the Specified Elective Unit List below.

BSL201 Finance Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BSL202 Workplace Law - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BSL203 Marketing and Advertising Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BSL204 Tourism and Hospitality Law - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BSL305 Company Law - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

BSL391 Alternative Dispute Resolution - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

---

## COMMUNICATION

*School of Arts*

**Excluded Majors:**

Communication and Media Studies

### Minor Structure - 12 credit points

#### Part I - 3 credit points

**Core Unit - 3 credit points**

CMS101 Introduction to Media Studies - 3 points

MURDOCH: S2-internal, S2-external

#### Part II - 9 credit points

**Core Units - 6 credit points**

CMS203 Audiences, Users and Participants - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

CMS304 Communicating Global Issues - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

**Specified Electives - 3 credit points**

Select from the following:

CMS202 Old Media, New Media - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

CMS305 Media Governance and the Public Sphere - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

---

## COMPUTER FORENSICS AND COMPUTER SECURITY

*School of Engineering and Information Technology*

**Excluded Majors:**

Cyber Forensics and Information Security

**Excluded Minors:**

Computer Forensics and Information Security Policy

### Minor Structure - 12 credit points

#### Part I - 3 credit points

**Core Unit - 3 credit points**

ICT171 Introduction to Server Environments and Architectures - 3 points

MURDOCH: S1-internal, S1-external

#### Part II - 9 credit points

**Core Units - 9 credit points**

ICT287 Computer Security - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

ICT378 Cyber Forensics and Information Technology - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

ICT379 Security Architectures and Systems Administration - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TSA-internal

---

## COMPUTER FORENSICS AND INFORMATION SECURITY POLICY

*School of Engineering and Information Technology*

**Excluded Majors:**

Cyber Forensics and Information Security

**Excluded Minors:**

Computer Forensics and Computer Security

### Minor Structure - 12 credit points

#### Part I - 6 credit points

**Core Units - 6 credit points**

ICT158 Introduction to Information Systems - 3 points

MURDOCH: S2-internal, S2-external

ICT171 Introduction to Server Environments and Architectures - 3 points

MURDOCH: S1-internal, S1-external

#### Part II - 6 credit points

**Core Units - 6 credit points**

ICT378 Cyber Forensics and Information Technology - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

ICT380 Information Security Policy and Governance - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

---

## CREATIVE WRITING

*School of Arts*

**Excluded Majors:**

English and Creative Writing

### Minor Structure - 12 credit points

#### Part I - 3 credit points

**Core Unit - 3 credit points**

EGL122 Writing and Creativity - 3 points

MURDOCH: S2-internal, S2-external

#### Part II - 9 credit points

**Core Units - 9 credit points**

EGL220 Project in Creative Writing - 3 points

MURDOCH: S1-internal, S1-external

EGL233 Telling True Stories - 3 points

MURDOCH: S1-internal

EGL232 Professional Writing and Editing - 3 points

MURDOCH: S2-internal

---

## CRIME SCIENCE

*School of Law*

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

CHE103 Introduction to Forensic Science - 3 points  
MURDOCH: S1-internal

OR

CRM100 Introduction to Criminology - 3 points  
MURDOCH: S1-internal, S1-external

#### **Part II - 9 credit points**

CRM201 Policing and Crime Prevention - 3 points  
MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CRM301 Crime Science - 3 points  
MURDOCH: U-internal

---

## CRIMINOLOGICAL PSYCHOLOGY

*School of Law*

### **Minor Structure - 12 credit points**

#### **Part I**

##### **Core Units - 3 credit points**

CRM100 Introduction to Criminology - 3 points  
MURDOCH: S1-internal, S1-external

#### **Part II**

##### **Specified Electives - 9 credit points**

Select three (3) units from the following:

CRM203 Criminal Behaviour - 3 points  
MURDOCH: S2-internal, S2-external

CRM388 Treatment of Criminal Behaviour - 3 points  
<span data-type="offering" data-unit="CRM388">MURDOCH:  
T1-internal, U2-internal (quota of 30 places)</span>

CRM302 Children and Crime - 3 points  
MURDOCH: S2-internal, S2-external

CRM389 Psychology and Law - 3 points  
MURDOCH: S2-internal, S2-external

---

## CRITICAL AND HUMAN SECURITY

*School of Business and Governance*

#### **Excluded Majors:**

Global Politics and Policy

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Units - 3 credit points**

POL134 Global Justice - 3 points  
MURDOCH: S2-internal, S2-external

#### **Part II - 9 credit points**

#### **Core Units - 9 credit points**

POL234 Terrorism in a Globalised World - 3 points  
MURDOCH: S1-internal, S1-external

POL334 Middle East Politics and Security - 3 points  
MURDOCH: S2-internal, S2-external

POL338 Politics and Security in South-East Asia: Terrorists,  
Gangsters and the State - 3 points  
MURDOCH: S2-internal, S2-external

---

## ECOSYSTEM MANAGEMENT

*School of Veterinary and Life Sciences*

#### **Excluded Majors:**

Environmental Science

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Specified Electives - 3 credit points**

Select from the following:

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

ENV246 Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

---

## ENGLISH AND LITERACY EDUCATION

*School of Education*

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Units - 3 credit points**

EDN111 Language for Learning and Teaching - 3 points  
MURDOCH: S1-internal, S1-external

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

EDN235 Teaching English and Literacy in Early Childhood and  
Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN461 Language and Literacies in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

EDN328 Teaching English and Literacy to Students with Learning  
Difficulties and Disabilities - 3 points  
MURDOCH: S1-internal, S1-external

---

## ENVIRONMENTAL ISSUES

*School of Veterinary and Life Sciences*

**Excluded Majors:**

Environmental Management and Sustainability; Sustainable Development

**Excluded Minors:**

Sustainable Development

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Core Unit - 3 credit points**

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

**Part II - 9 credit points**

**Core Units - 9 credit points**

ENV245 Global and Regional Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

ENV246 Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

SUS203 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

---

## EQUINE SCIENCE

*School of Veterinary and Life Sciences*

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

BMS107 Foundations of Vertebrate Form and Function - 3 points  
MURDOCH: S2-internal

BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

**Part II - 6 credit points**

**Core Units - 6 credit points**

ANS365 Equine Physiology and Behaviour - 3 points  
MURDOCH: S1-internal

ANS366 Equine Nutrition and Health - 3 points  
MURDOCH: S2-internal

---

## ETHICS

*School of Arts*

**Excluded Majors:**

Philosophy

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

PHL130 Introduction to Philosophy - 3 points  
MURDOCH: S2-internal, S2-external

PHL131 Critical and Creative Thinking - 3 points  
MURDOCH: S1-internal, S1-external

## Part II - 6 credit points

**Core Units - 6 credit points**

PHL206 Moral and Political Philosophy - 3 points  
MURDOCH: S2-internal, S2-external

PHL210 Applied and Professional Ethics - 3 points  
Not available this year

---

## EVENTS

*School of Arts*

**Excluded Majors:**

Tourism and Events

**Excluded Minors:**

Tourism

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Specified Electives - 3 credit points**

Select from the following:

TOU101 Introduction to Tourism Systems - 3 points  
MURDOCH: S1-internal, S1-external

TOU102 Travel and Tourism in Society - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**Part II - 9 credit points**

**Core Units - 9 credit points**

TOU221 Sustainable Tourism - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

TOU232 Festivals and Events - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

TOU324 Events, Policy and Evaluation - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal, TSA-internal

---

## FISHERIES SCIENCE

*School of Veterinary and Life Sciences*

**Excluded Minors:**

Resource Management

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Specified Electives - 3 credit points**

Select from the following:

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

**Part II - 9 credit points**

**Core Units - 6 credit points**

BIO249 Fish and Wildlife Populations - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3

points

MURDOCH: S2-internal, S2-external

### **Specified Electives - 3 credit points**

Select from the following:

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS353 Statistical Design and Data Analysis - 3 points

MURDOCH: S2-internal, S2-external

## **FORENSIC BIOLOGY**

*School of Veterinary and Life Sciences*

### **Excluded Majors:**

Forensic Biology and Toxicology

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

CHE103 Introduction to Forensic Science - 3 points

MURDOCH: S1-internal

BMS101 Introduction to the Human Body - 3 points

MURDOCH: S1-internal

#### **Part II - 6 credit points**

##### **Core Units - 6 credit points**

BMS213 Forensic Anatomy and Anthropology - 3 points

MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

## **GAMES DESIGN**

*School of Engineering and Information Technology*

### **Excluded Majors:**

Games Software Design and Production

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

ICT159 Foundations of Programming - 3 points

MURDOCH: S1-internal, S1-external

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

ICT288 Games Software Design - 3 points

MURDOCH: S1-internal, S1-external

ICT365 Software Development Frameworks - 3 points

MURDOCH: S2-internal, S2-external

ICT367 Games Software Production - 3 points

MURDOCH: S1-internal, S1-external

## **GENDER STUDIES**

*School of Arts*

### **Minor Structure - 12 credit points**

#### **Part II - 12 credit points**

##### **Specified Electives - 12 credit points**

Select from the following:

POL226 Sex and Gender Matters - 3 points

MURDOCH: S2-internal, S2-external

AST288 Women in Asian Societies - 3 points

MURDOCH: S2-internal, S2-external

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points

MURDOCH: S2-internal, S2-external

JPN207 Love and Sexuality in Japan - 3 points

MURDOCH: S2-internal, S2-external

## **HUMAN ANATOMY**

*School of Veterinary and Life Sciences*

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

BMS101 Introduction to the Human Body - 3 points

MURDOCH: S1-internal

CHI108 Human Anatomy I - 3 points

MURDOCH: S2-internal

#### **Part II - 6 credit points**

##### **Specified Electives - 6 credit points**

Select from the following:

BMS213 Forensic Anatomy and Anthropology - 3 points

MURDOCH: S1-internal

CHI280 Human Anatomy I - 4 points

OR

CHI255 Human Anatomy II - 3 points

MURDOCH: S1-internal

CHI234 Human Anatomy III - 3 points

MURDOCH: S2-internal

## **HUMAN RESOURCES MANAGEMENT**

*School of Business and Governance*

### **Excluded Majors:**

Hospitality and Tourism Management; Human Resources Management

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Units - 3 credit points**

BUS176 Foundations of Management and Governance - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Part II - 9 credit points**

**Core Units - 9 credit points**

BUS293 Organisational Theory and Behaviour - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

BUS297 Principles of Human Resources Management - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

BUS340 Advanced Human Resource Perspectives - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

IND443 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

OR

AST384 Asian Studies Project - 3 points  
MURDOCH: S1-internal, S2-external, SUM-external, U-external, W-external

may be credited to the Indonesian Minor with approval of the Academic Chair and Indonesian Language Coordinator.

---

**INCLUSIVE EDUCATION***School of Education***Minor Structure - 12 credit points****Part II - 12 credit points****Core Units - 12 credit points**

EDN449 Inclusive Education - 3 points  
MURDOCH: S1-external, S2-internal, S2-external

EDN329 Teaching Mathematics and Numeracy to Students with Learning Difficulties - 3 points  
MURDOCH: S2-internal, S2-external

EDN328 Teaching English and Literacy to Students with Learning Difficulties and Disabilities - 3 points  
MURDOCH: S1-internal, S1-external

EDN330 Teaching Students with High Incidence Disabilities - 3 points  
MURDOCH: SUM-internal, SUM-external

---

**INDUSTRIAL AND APPLIED MATHEMATICS***School of Engineering and Information Technology***Excluded Majors:**

Mathematics and Statistics

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

MAS182 Applied Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

MAS161 Calculus and Matrix Algebra - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Part II - 9 credit points****Core Unit - 3 credit points**

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

OR

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

MAS220 Mathematical Methods - 3 points  
MURDOCH: S1-internal, S1-external

MAS221 Mathematical Modelling - 3 points  
MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points  
MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points  
MURDOCH: S2-internal, S2-external

---

**INDONESIAN***School of Arts***Excluded Majors:**

Indonesian

**Minor Structure - 12 credit points****Part I - 6 credit points****Core Units - 6 credit points**

IND101 Indonesian 1 - 3 points  
MURDOCH: S1-internal, S1-external

IND102 Indonesian 2 - 3 points  
MURDOCH: S2-internal, S2-external

**Part II - 6 credit points****Core Units - 6 credit points**

IND201 Indonesian 3 - 3 points  
MURDOCH: UA3-internal, UA3-external

IND202 Indonesian 4 - 3 points  
MURDOCH: AU1-internal, AU1-external

Students with pre-existing language qualifications may substitute one of the following units for any of the core units. Up to 12 points from

IND243 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

OR

---

**INTERNATIONAL AID AND DEVELOPMENT***School of Business and Governance***Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

SUS100 Introduction to Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

5

**Part II - 9 credit points****Core Units - 9 credit points**

SUS207 Overseas Aid and International Development - 3 points  
MURDOCH: S1-internal, S1-external

POL298 International Political Economy - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

POL226 Sex and Gender Matters - 3 points  
MURDOCH: S2-internal, S2-external

---

**JAPANESE****School of Arts****Excluded Majors:**

Japanese

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

JPN102 Japanese 2 - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points****Core Units - 9 credit points**

JPN201 Japanese 3 - 3 points  
MURDOCH: UA3-internal

JPN202 Japanese 4 - 3 points  
MURDOCH: AU1-internal

JPN203 Japanese 5 - 3 points  
MURDOCH: S2-internal

---

**JOURNALISM****School of Arts****Excluded Majors:**

Journalism

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Units - 3 credit points**

JOU104 Digital Newsgathering and Journalism - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points****Core Units - 6 credit points**

JOU245 Media Law and Ethics - 3 points  
MURDOCH: S1-internal

JOU340 Journalism and Society - 3 points  
MURDOCH: S2-internal

**Specified Electives - 3 credit points**

Select from the following:

JOU217 Online and Mobile Journalism - 3 points  
MURDOCH: S2-internal

JOU367 Video Journalism - 3 points  
MURDOCH: S1-internal

EGL233 Telling True Stories - 3 points

MURDOCH: S1-internal

---

**LAW AND JUSTICE****School of Law****Excluded Majors:**

Law, Business and Society

**Minor Structure - 12 credit points****Part I****Core Units - 6 credit points**

BJU150 Law in Context - 3 points  
MURDOCH: S1-internal, S1-external

LEG100 Law, Justice and Social Policy - 3 points  
MURDOCH: S2-internal, S2-external

**Part II****Core Units - 6 credit points**

Select from the following:

LEG323 Social and Welfare Law - 3 points  
MURDOCH: S2-internal, S2-external

LEG391 Alternative Dispute Resolution - 3 points  
MURDOCH: S2-internal, S2-external

LEG211 Legal Costs Assessment - 3 points  
MURDOCH: SUM-internal

---

**LITERATURE****School of Arts****Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

EGL121 Turning Points in Literature - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 9 credit points****Core Units - 9 credit points**

EGL252 Great Books Past and Present 1 - 3 points  
MURDOCH: S1-internal, S1-external

EGL348 Shakespeare - 3 points  
MURDOCH: S2-internal, S2-external

EGL344 Sonnet to Song: Understanding Poetry - 3 points  
MURDOCH: S2-internal, S2-external

---

**MARINE BIOLOGY****School of Veterinary and Life Sciences****Excluded Majors:**

Conservation and Wildlife Biology; Marine Biology

**Minor Structure - 12 credit points****Part I - 3 credit points****Specified Electives - 3 credit points**

Select from the following:

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

## Part II - 9 credit points

### Core Units - 9 credit points

BIO249 Fish and Wildlife Populations - 3 points  
MURDOCH: S1-internal

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

## MATHEMATICS AND NUMERACY EDUCATION

### School of Education

### Minor Structure - 12 credit points

#### Part I

##### Core Units - 3 credit points

EDN114 Thinking Mathematically - 3 points  
MURDOCH: S2-internal, S2-external

#### Part II - 9 credit points

##### Core Units - 9 credit points

EDN351 Teaching Mathematics in Early Childhood and Primary - 3 points  
MURDOCH: S1-internal, S1-external

EDN462 Mathematics and Numeracy in the Early Years - 3 points  
MURDOCH: S1-internal, S1-external

EDN329 Teaching Mathematics and Numeracy to Students with Learning Difficulties - 3 points  
MURDOCH: S2-internal, S2-external

## MEDIA STUDIES

### School of Arts

#### Excluded Majors:

Communication and Media Studies

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Core Unit - 3 credit points

CMS101 Introduction to Media Studies - 3 points  
MURDOCH: S2-internal, S2-external

#### Part II - 9 credit points

##### Core Units - 9 credit points

CMS201 Screen: Small, Medium and Large - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

CMS202 Old Media, New Media - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

CMS305 Media Governance and the Public Sphere - 3 points  
MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

## MODERN HISTORY

### School of Arts

#### Excluded Majors:

History

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Specified Electives - 3 credit points

Select from the following:

HIS182 Making of the Modern World - 3 points  
MURDOCH: S2-internal, S2-external

HIS181 Introduction to History - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II - 9 credit points

##### Specified Electives - 9 credit points

Select from the following:

HIS259 Europe Under the Dictators - 3 points  
Not available this year

HIS334 Peasants, Rebels and Leviathan: Modern Southeast Asian History - 3 points  
MURDOCH: S1-internal, S1-external

HIS200 The Empire Strikes Back: Imperialism and Colonialism in Modern History - 3 points  
MURDOCH: S2-internal, S2-external

HIS204 Crime and Punishment Since 1700 - 3 points  
Not available this year

HIS250 Hollywood and History - 3 points  
Not available this year

HIS258 Soldiers and Civilians: War in the Pacific 1941-1945 - 3 points  
MURDOCH: S2-internal, S2-external

HIS257 Spies, Saboteurs and Secret Agents - 3 points  
MURDOCH: S1-internal, S1-external

HIS302 Vision Splendid: An Alternative History of Australia - 3 points  
Not available this year

HIS310 Modern Japan - 3 points  
Not available this year

HIS324 Cold War 1945 - 1991: A Global History - 3 points  
MURDOCH: S2-internal, S2-external

HIS305 The Vietnam Wars - 3 points  
Not available this year

## MOLECULAR BIOLOGY

### School of Veterinary and Life Sciences

#### Excluded Majors:

Genetics and Molecular Biology

### Minor Structure - 12 credit points

#### Part I - 6 credit points

##### Core Units - 6 credit points



BIO152 Cell Biology - 3 points  
MURDOCH: S2-internal

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

## Part II - 6 credit points

### Core Units - 6 credit points

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

---

## NATURE BASED TOURISM

*School of Veterinary and Life Sciences*

### Minor Structure - 12 credit points

#### Part I

##### Core Units - 3 credit points

TOU101 Introduction to Tourism Systems - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II - 9 credit points

##### Core Units - 6 credit points

ENV278 Nature-Based Tourism - 3 points  
MURDOCH: S1-internal, S1-external

ENV246 Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

##### Specified Electives - 3 credit points

Select from the following:

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

AIS206 Country, Nature and Identity: Indigenous Sustainability - 3 points  
MURDOCH: S1-internal, S1-external

TOU221 Sustainable Tourism - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

---

## NETWORK DESIGN

*School of Engineering and Information Technology*

#### Excluded Majors:

Internetworking and Network Security

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Core Unit - 3 credit points

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

#### Part II - 9 credit points

##### Core Units - 9 credit points

ICT291 Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT369 Wireless and Interactive Networks - 3 points  
MURDOCH: S2-internal

ICT372 Advanced Network Design and Implementation - 3 points  
MURDOCH: S2-internal

---

## NETWORK SECURITY

*School of Engineering and Information Technology*

#### Excluded Majors:

Internetworking and Network Security

### Minor Structure - 12 credit points

#### Part I - 6 credit points

##### Core Units - 6 credit points

ICT169 Foundations of Data Communications - 3 points  
MURDOCH: S2-internal, S2-external

ICT171 Introduction to Server Environments and Architectures - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II - 6 credit points

##### Core Units - 6 credit points

ICT291 Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT377 Network Security - 3 points  
MURDOCH: S1-internal

---

## NEUROSCIENCE

*School of Psychology and Exercise Science*

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Core Unit - 3 credit points

PSY173 Introduction to Psychological Research Methods - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

#### Part II - 9 credit points

##### Core Units - 9 credit points

PSY388 Psychology: Abnormal Behaviour - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

PSY294 Psychology: Cognitive Processes - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

PSY251 Psychology: Biological Bases of Behaviour - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

---

## ORGANIC AND BIOLOGICAL CHEMISTRY

*School of Engineering and Information Technology*

#### Excluded Majors:

Chemistry

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Core Unit - 3 credit points

CHE145 Introduction to Chemical Concepts - 3 points  
MURDOCH: S2-internal, S2-external

## Part II - 9 credit points

### Core Units - 6 credit points

CHE205 Organic and Biological Chemistry I - 3 points  
MURDOCH: S2-internal, S2-external

CHE308 Organic and Biological Chemistry II - 3 points  
MURDOCH: S1-internal, S1-external

### Specified Electives - 3 credit points

Select from the following:

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

PHO203 Photography 2 - 3 points  
MURDOCH: S1-internal

PHO204 Visual Literacy - 3 points  
MURDOCH: S1-internal

---

## PLANT BIOLOGY

*School of Veterinary and Life Sciences*

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Specified Electives - 3 credit points

Select from the following:

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II - 9 credit points

##### Core Units - 3 credit points

BIO245 Plant Evolution, Radiation and Adaptation - 3 points  
MURDOCH: S1-internal

##### Specified Electives - 6 credit points

Select from the following:

BIO254 Marine Botany - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

5

---

## PHILOSOPHY

*School of Arts*

### Excluded Majors:

Philosophy

### Minor Structure - 12 credit points

#### Part I - 3 credit points

##### Specified Electives - 3 credit points

Select from the following:

PHL130 Introduction to Philosophy - 3 points  
MURDOCH: S2-internal, S2-external

PHL131 Critical and Creative Thinking - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II - 9 credit points

##### Core Units - 9 credit points

PHL209 Metaphors of Mind - 3 points  
MURDOCH: S2-internal, S2-external

PHL205 Critical Metaphysics - 3 points  
MURDOCH: S1-internal, S1-external

PHL317 Meaning and Interpretation - 3 points  
MURDOCH: S1-internal, S1-external

---

## POLITICS

*School of Business and Governance*

### Excluded Majors:

Global Politics and Policy

### Minor Structure - 12 credit points

#### Part I

##### Core Units - 3 credit points

POL133 Politics, Power and Policy - 3 points  
MURDOCH: S1-internal, S1-external

#### Part II

##### Core Units - 9 credit points

POL228 Democracy and Political Change - 3 points  
MURDOCH: S1-internal, S1-external

POL298 International Political Economy - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

POL331 Democracy in Doubt - 3 points  
MURDOCH: S1-internal, S1-external

---

## PHOTOGRAPHY

*School of Arts*

### Minor Structure - 12 credit points

#### Part I - 6 credit points

##### Core Units - 6 credit points

PHO124 Photography 1 - 3 points  
MURDOCH: S1-internal, S2-internal

PHO101 Digital Imaging - 3 points  
MURDOCH: S2-internal

#### Part II - 6 credit points

##### Core Units - 6 credit points

## POPULAR CULTURE, INDIGENEITY AND NATIONHOOD

*School of Arts*

**Excluded Majors:**

Australian Indigenous Studies

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

AIS110 Introduction to Indigenous Popular Culture - 3 points  
MURDOCH: S2-internal, S2-external

CMS102 Contemporary Culture - 3 points  
MURDOCH: S2-internal, S2-external

#### **Part II - 6 credit points**

##### **Core Unit - 3 credit points**

AIS356 Reading Reconciliation - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 3 credit points**

Select from the following:

EGL235 Australian Literature and Film - 3 points  
MURDOCH: S1-internal, S1-external

IND371 Media, Culture and Politics in Indonesia - 3 points  
MURDOCH: S2-internal, S2-external

## PRINT DESIGN

*School of Arts*

**Excluded Majors:**

Graphic Design

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

IDD129 Introduction to Digital Media Skills - 3 points  
MURDOCH: S1-internal  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TSA-internal

IDD118 Introduction to Graphic Design - 3 points  
MURDOCH: S2-internal

#### **Part II - 6 credit points**

##### **Core Units - 6 credit points**

IDD202 Brand and Identity Design - 3 points  
MURDOCH: S1-internal

IDD201 Publication Design - 3 points  
MURDOCH: S2-internal

## PUBLIC POLICY

*School of Business and Governance*

**Excluded Majors:**

Global Politics and Policy

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Units - 3 credit points**

POL133 Politics, Power and Policy - 3 points  
MURDOCH: S1-internal, S1-external

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

POL246 Public Policy Analysis - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

POL228 Democracy and Political Change - 3 points  
MURDOCH: S1-internal, S1-external

POL332 Global Policy and Administration - 3 points  
MURDOCH: S2-internal, S2-external

5

## PUBLIC RELATIONS

*School of Arts*

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

PRO107 Introduction to Public Relations - 3 points  
MURDOCH: S1-internal

#### **Part II - 9 credit points**

##### **Core Units - 6 credit points**

PRO259 Media Relations - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

PRO204 Public Relations Strategy - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

##### **Specified Electives - 3 credit points**

Select from the following:

PRO345 Issues and Crisis Management - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

PRO307 Campaign Management - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

## RADIO

*School of Arts*

**Excluded Majors:**

Radio

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

**Core Unit - 3 credit points**

RAD105 Introduction to Radio - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points****Core Units - 9 credit points**

RAD244 Radio Presenting and Producing - 6 points  
MURDOCH: S1-internal

RAD301 Creative Radio - 3 points  
MURDOCH: S2-internal

---

**RELIGION***School of Arts***Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

REL101 World Religions - 3 points  
MURDOCH: S2-internal, S2-external

**Part II - 9 credit points****Core Unit - 3 credit points**

REL202 Faith, Conflict, and Human Rights - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

REL203 Death and the Afterlife in Ancient Egypt and Mesopotamia - 3 points  
Not available this year

REL204 Introduction to the Bible - 3 points  
Not available this year

REL205 Mysteries, Magic, and Myths - 3 points  
MURDOCH: S2-internal, S2-external

SOC209 Religion and Society - 3 points  
MURDOCH: S1-internal, S1-external

---

**RESOURCE MANAGEMENT***School of Veterinary and Life Sciences***Excluded Majors:**

Environmental Management and Sustainability

**Excluded Minors:**

Fisheries Science

**Minor Structure - 12 credit points****Part I - 3 credit points****Specified Electives - 3 credit points**

Select from the following:

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

**Part II - 9 credit points****Core Units - 9 credit points**

BIO249 Fish and Wildlife Populations - 3 points

MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

ENV246 Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

---

**SCREEN PRODUCTION***School of Arts***Excluded Majors:**

Screen Production

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

SCR101 Screen Production 1 - 3 points  
MURDOCH: S1-internal, S2-internal

**Part II - 9 credit points****Core Units - 6 credit points**

SCR200 Writing for the Screen - 3 points  
MURDOCH: S1-internal

SCR201 Screen Production 2 - 3 points  
MURDOCH: S1-internal

**Specified Electives - 3 credit points**

Select from the following:

SCR304 Documentary Production - 3 points  
MURDOCH: S2-internal

PHO204 Visual Literacy - 3 points  
MURDOCH: S1-internal

---

**SECURITY, TERRORISM AND COUNTERTERRORISM***School of Business and Governance***Excluded Majors:**

Security, Terrorism and Counterterrorism Studies

**Minor Structure - 12 credit points****Part I - 3 credit points****Core Unit - 3 credit points**

POL192 Perspectives on Security and Terrorism - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 9 credit points****Core Units - 9 credit points**

POL234 Terrorism in a Globalised World - 3 points  
MURDOCH: S1-internal, S1-external

POL236 US Policies and Global Security - 3 points  
MURDOCH: S1-internal, S1-external

POL335 Policing, Intelligence and Counterterrorism - 3 points  
MURDOCH: S1-internal, S1-external

---

## SOCIAL, CULTURAL AND LITERARY THEORY

*School of Arts*

### **Minor Structure - 12 credit points**

#### **Part II - 12 credit points**

##### **Core Units - 12 credit points**

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points  
MURDOCH: S2-internal, S2-external

PHL317 Meaning and Interpretation - 3 points  
MURDOCH: S1-internal, S1-external

EGL346 Literary Theory - 3 points  
Not available this year

AST312 Anthropology, Society and Culture - 3 points  
MURDOCH: S1-internal, S1-external

---

## SOCIAL JUSTICE IN CONTEMPORARY CULTURE

*School of Arts*

#### **Excluded Majors:**

Communication and Media Studies

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

CMS102 Contemporary Culture - 3 points  
MURDOCH: S2-internal, S2-external

#### **Part II - 9 credit points**

##### **Core Units - 6 credit points**

AIS307 Indigeneity, Critical Theory and Social Justice - 3 points  
MURDOCH: S2-internal, S2-external

CMS304 Communicating Global Issues - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

##### **Specified Electives - 3 credit points**

Select from the following:

AST288 Women in Asian Societies - 3 points  
MURDOCH: S2-internal, S2-external

POL226 Sex and Gender Matters - 3 points  
MURDOCH: S2-internal, S2-external

---

## SOCIAL AND DEVELOPMENTAL PSYCHOLOGY

*School of Psychology and Exercise Science*

#### **Excluded Majors:**

Psychology

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

PSY101 Introduction to Cultural Psychology - 3 points  
MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

PSY286 Psychology: Human Development - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

PSY285 Psychology: Social Bases of Behaviour - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

PSY287 Psychology: Self and Society - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal, TSA-internal

OR

PSY393 Psychology: The Developing Mind - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TSA-internal

---

## SOUND PRODUCTION

*School of Arts*

#### **Excluded Majors:**

Sound

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

SOU101 Introduction to Audio Production - 3 points  
MURDOCH: S2-internal

SOU169 Introduction to Sound Studies - 3 points  
MURDOCH: S1-internal

#### **Part II - 6 credit points**

##### **Core Units - 6 credit points**

SOU268 Music Technology - 3 points  
MURDOCH: S2-internal

SOU214 Sound Production - 3 points  
MURDOCH: S1-internal

---

## SOUND STUDIES

*School of Arts*

#### **Excluded Majors:**

Sound

### **Minor Structure - 12 credit points**

#### **Part I - 6 credit points**

##### **Core Units - 6 credit points**

SOU101 Introduction to Audio Production - 3 points  
MURDOCH: S2-internal

SOU169 Introduction to Sound Studies - 3 points  
MURDOCH: S1-internal

#### **Part II - 6 credit points**

##### **Core Units - 6 credit points**

RAD374 Popular Music - 3 points  
MURDOCH: S2-internal

SOU377 Soundtrack - 3 points  
MURDOCH: S2-internal

---

## SPORT PSYCHOLOGY

*School of Psychology and Exercise Science*

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

PSY172 Introduction to Psychological Health and Wellbeing - 3 points  
MURDOCH: S2-internal

#### **Part II - 9 credit points**

##### **Core Units - 9 credit points**

PSY391 Psychology: Individual Differences and Performance - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TSA-internal

EXS201 Sport and Exercise Psychology - 3 points  
MURDOCH: S1-internal

EXS301 Advanced Sport and Exercise Psychology - 3 points  
MURDOCH: S2-internal

---

## SUSTAINABILITY, ECOSYSTEMS AND COMMUNITY DEVELOPMENT

*School of Business and Governance*

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

#### **Part II - 9 credit points**

##### **Core Units - 6 credit points**

SUS203 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 3 credit points**

Select from the following:

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

ENG300 Environmental Technology for Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

---

## SUSTAINABLE DEVELOPMENT

*School of Business and Governance*

##### **Excluded Minors:**

Environmental Issues

### **Minor Structure - 12 credit points**

#### **Part I - 3 credit points**

##### **Core Unit - 3 credit points**

SUS100 Introduction to Sustainable Development - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Part II - 9 credit points**

##### **Core Units - 6 credit points**

SUS203 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

ENV245 Global and Regional Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 3 credit points**

Select from the following:

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

SUS310 Sustainable Urban Communities - 3 points  
MURDOCH: S1-internal, S1-external

---

## TEACHING INDONESIAN IN PRIMARY SCHOOLS

*School of Education*

##### **Excluded Minors:**

Teaching Japanese in Primary Schools

### **Minor Structure - 18 credit points**

#### **Part I**

##### **Core Units - 6 credit points**

IND101 Indonesian 1 - 3 points  
MURDOCH: S1-internal, S1-external

IND102 Indonesian 2 - 3 points  
MURDOCH: S2-internal, S2-external

#### **Part II**

##### **Core Units - 12 credit points**

IND201 Indonesian 3 - 3 points  
MURDOCH: UA3-internal, UA3-external

IND202 Indonesian 4 - 3 points  
MURDOCH: AU1-internal, AU1-external

IND203 Indonesian 5 - 3 points  
MURDOCH: S2-internal, S2-external

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

## TEACHING JAPANESE IN PRIMARY SCHOOLS

*School of Education*

**Excluded Majors:**

Teaching Indonesian in Primary Schools

**Minor Structure - 18 credit points**

**Part I**

**Core Units - 6 credit points**

JPN101 Japanese 1 - 3 points  
MURDOCH: S1-internal

JPN102 Japanese 2 - 3 points  
MURDOCH: S2-internal

**Part II**

**Core Units - 12 credit points**

JPN201 Japanese 3 - 3 points  
MURDOCH: UA3-internal

JPN202 Japanese 4 - 3 points  
MURDOCH: AU1-internal

JPN203 Japanese 5 - 3 points  
MURDOCH: S2-internal

EDN375 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

## THEATRE AND DRAMA

*School of Arts*

**Excluded Majors:**

Theatre and Drama

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Core Unit - 3 credit points**

EGL106 Drama, Theatre and Performance - 3 points  
MURDOCH: S2-internal

**Part II - 9 credit points**

**Core Units - 6 credit points**

EGL239 Acting and Production - 3 points  
MURDOCH: S1-internal

EGL236 Performance and Creative Arts - 3 points  
MURDOCH: S2-internal

**Specified Electives - 3 credit points**

Select from the following:

EGL240 Children's Theatre - 3 points  
MURDOCH: S1-internal

EGL342 Comparative Theatre - 3 points  
MURDOCH: S1-internal

## TOURISM

*School of Arts*

**Excluded Majors:**

Tourism and Events

**Excluded Minors:**

Events

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

TOU101 Introduction to Tourism Systems - 3 points  
MURDOCH: S1-internal, S1-external

TOU102 Travel and Tourism in Society - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

**Part II - 6 credit points**

**Core Unit - 3 credit points**

TOU221 Sustainable Tourism - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

**Specified Electives - 3 credit points**

Select from the following:

TOU230 Cultural Tourism Interpretation - 3 points  
MURDOCH: S2-internal, S2-external

TOU231 Indigenous Tourism Issues - 3 points  
Not available this year

5

## WASTE AND WATER MANAGEMENT

*School of Engineering and Information Technology*

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Core Units - 3 credit points**

ENV102 Foundations of the Environment - 3 points  
MURDOCH: S2-internal, S2-external

**Part II - 9 credit points**

**Core Units - 9 credit points**

Select from the following:

ENG221 Pollution and its Control - 3 points  
MURDOCH: S1-internal, S1-external

ENG300 Environmental Technology for Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

ENG459 Sustainable Urban Water Systems - 3 points  
MURDOCH: S1-internal

---

## WEB DESIGN

*School of Arts*

**Excluded Majors:**

Graphic Design

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

IDD129 Introduction to Digital Media Skills - 3 points  
MURDOCH: S1-internal  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TSA-internal

IDD118 Introduction to Graphic Design - 3 points  
MURDOCH: S2-internal

**Part II - 6 credit points**

**Core Unit - 3 credit points**

WEB263 Web Design - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

**Specified Electives - 3 credit points**

Select from the following:

IDD338 Advanced Web Design - 3 points  
MURDOCH: S1-internal

IDD379 Mobile App and Interaction Design - 3 points  
MURDOCH: S1-internal

---

## WEB DEVELOPMENT

*School of Engineering and Information Technology*

**Excluded Majors:**

Mobile and Web Application Development

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Core Unit - 3 credit points**

ICT159 Foundations of Programming - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 9 credit points**

**Core Units - 9 credit points**

ICT286 Web and Mobile Computing - 3 points  
MURDOCH: S2-internal, S2-external

ICT375 Advanced Web Programming - 3 points  
MURDOCH: S1-internal, S1-external

ICT376 Mobile Application Development - 3 points  
MURDOCH: S2-internal, S2-external

---

## WEB STRATEGY

*School of Arts*

**Excluded Majors:**

Web Communication

**Minor Structure - 12 credit points**

**Part I - 6 credit points**

**Core Units - 6 credit points**

PRO101 Introduction to Social Media - 3 points  
MURDOCH: S2-internal  
DUBAI-ISC: TMD-internal

PRO107 Introduction to Public Relations - 3 points  
MURDOCH: S1-internal

**Part II - 6 credit points**

**Core Unit - 3 credit points**

WEB278 Web Strategy - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

**Specified Electives - 3 credit points**

Select from the following:

WEB303 Business of Freelancing - 3 points  
MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

WEB302 Web Metrics - 3 points  
MURDOCH: S1-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

---

## WILDLIFE CONSERVATION

*School of Veterinary and Life Sciences*

**Excluded Majors:**

Conservation and Wildlife Biology

**Minor Structure - 12 credit points**

**Part I - 3 credit points**

**Specified Electives - 3 credit points**

Select from the following:

BIO180 Introduction to Marine Biology - 3 points  
MURDOCH: S1-internal

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

**Part II - 9 credit points**

**Core Units - 9 credit points**

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

BIO375 Conservation Biology - 3 points  
MURDOCH: S1-internal

BIO376 Wildlife Biology - 3 points  
MURDOCH: S2-internal



# Graduate Courses

## Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Group	Course	Offerings
<b>Graduate Coursework Degrees and Professional Doctorates</b>		
<b>Accounting</b>	Master of Professional Accounting (MPA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal)</li> </ul>
<b>Asian Studies</b>	Graduate Certificate in Asian Studies (GradCertAsianSt)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> <li>• This course is not normally available to international students studying in Australia on a student visa, due to visa regulations. However, exceptions can be made, conditional on undertaking certain units: contact The Student Centre for details. It is available to international students on other visas if visa conditions allow.</li> </ul>
	Graduate Diploma in Asian Language (In-Country) (GradDipAsianLangIn-Country)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal) (this course requires students to reside in Asia for the duration)</li> </ul>
	Graduate Diploma in Asian Studies (GradDipAsianSt)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> </ul>
	Master of Asian Studies (MAsianSt)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> </ul>
<b>Biosecurity</b>	Master of Biosecurity (MBiosec)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (all but one unit)</li> </ul>
<b>Business Administration</b>	Graduate Certificate in Business Administration (GradCertBusAdmin)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Graduate Certificate in Business Administration (MasterClass) (GradCertBusAdmin)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Only available to international students who are studying concurrently in a Bachelor's degree on a full-time load.</li> </ul>
	Master of Business Administration (MBA)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> <li>• Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)</li> </ul>
	Master of Business Administration Professional Practice (MBA(PP))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Communication and Media Studies</b>	Master of Communication Management (MCommM)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Community Development</b>	Graduate Certificate in Community Development (GradCertCommDev)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• International students must commence in Semester 2 only.</li> </ul>
	Graduate Diploma in Community Development (GradDipCommDev)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only: Murdoch campus (external) (all but one unit)</li> </ul>
	Master of Community Development (MCommDev)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Counselling</b>	Graduate Certificate in Counselling (GradCertCounsel)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Mandurah campus (internal)</li> </ul>

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

Group	Course	Offerings
	Graduate Diploma in Counselling (GradDipCounsel)	• Murdoch campus (internal)
	Graduate Diploma in Creative Arts Therapies (GradDipArtTherapy)	• Mandurah campus (internal)
	Master of Counselling (MCounsel)	• Murdoch campus (internal)
<b>Development Studies</b>	Graduate Certificate in Policy and Development (GradCertPDev)	• Murdoch campus (internal) • International students must commence in Semester 1 only.
	Master of Development Studies (MDS)	• Murdoch campus (internal)
<b>Early Childhood Education</b>	Graduate Certificate in Early Childhood Education (GradCertEarlyChildEd)	• Murdoch campus (external)
<b>Education</b>	Graduate Certificate in Education (International Education) (GradCertEdIntlEd)	• Murdoch campus (internal)
	Graduate Certificate in Education (Secondary Mathematics 7-10) (GradCertEd(SecMaths))	• Murdoch campus (internal) (all but one unit) • Murdoch campus (external)
	Graduate Certificate in Education (Secondary Science 7-10) (GradCertEd(SecSci))	• Murdoch campus (external) • Some units only: Murdoch campus (internal)
	Graduate Diploma in Education (Early Childhood Education and Care) (GradDipEd(ECE&C))	• Murdoch campus (external) (Placements can be completed in all Australian states and territories) • This course is not available to international students studying in Australia on a student visa; it is available to international students on other visas if visa conditions allow.
	Graduate Diploma in Education (Secondary) (GradDipEd)	• Murdoch campus (internal) • Some units only: Murdoch campus (external) • International students must commence in Semester 1 only.
	Master of Education (Coursework) (MEd)	• Murdoch campus (internal) • Murdoch campus (external) • Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)
	Master of Teaching (Primary) (MTeachPrim)	• Murdoch campus (internal) • Murdoch campus (external) • International students must commence in Semester 1 only.
<b>Energy Studies</b>	Graduate Certificate in Energy and Carbon Studies (GradCertEnCbSt)	• Murdoch campus (internal) • Murdoch campus (external) • International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)
	Graduate Diploma in Energy and Carbon Studies (GradDipEnCbSt)	• Murdoch campus (internal) • Murdoch campus (external) • International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)
	Master of Renewable and Sustainable Energy (MRenSusEn)	• Murdoch campus (internal) • Murdoch campus (external) • International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)
<b>Energy and the Environment</b>	Graduate Diploma in Energy and the Environment (GradDipEnEnv)	• Murdoch campus (internal) • Murdoch campus (external) • International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)
<b>Engineering</b>	Graduate Diploma in Engineering (GradDipEng)	• Murdoch campus (internal)
	Master of Engineering (ME)	• Murdoch campus (internal)

Group	Course	Offerings
<b>Environmental Assessment and Management</b>	Graduate Certificate in Environmental Assessment and Management (GradCertEnvAsstMan)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
<b>Environmental Management</b>	Graduate Certificate in Protected Area Administration (GradCertPAAdmin)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Master of Protected Area Management (MPAMan)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Environmental Science</b>	Graduate Certificate in Environmental Science (GradCertEnvSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external) (some attendance is required in individual units)</li> <li>• International students must commence in Semester 2 only.</li> </ul>
	Graduate Diploma in Environmental Science (GradDipEnv)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only; Murdoch campus (external) (all but one unit)</li> </ul>
	Master of Environmental Science (MEnvSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Exercise Physiology</b>	Graduate Diploma in Clinical Exercise Physiology (GradDipClinExPhys)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Extractive Metallurgy</b>	Graduate Diploma in Extractive Metallurgy (GradDipExtMet)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Food Security</b>	Master of Food Security (MFoodSec)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only; Murdoch campus (external)</li> </ul>
<b>Forensic Science</b>	Graduate Certificate in Forensic Science (Professional Practice) (GradCertForSc(ProfessionalPractice))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Master of Forensic Science (Professional Practice) (MForSc(ProfessionalPractice))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Games and Apps Production</b>	Graduate Diploma in Games and Apps Production (GradDipGamesAppsProd)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Health</b>	Graduate Certificate in Health Care Management (GradCertHCM)	<ul style="list-style-type: none"> <li>• Murdoch campus (external)</li> </ul>
	Master of Health Care Management (MHCM)	<ul style="list-style-type: none"> <li>• Murdoch campus (external)</li> <li>• Some units only; Murdoch campus (internal)</li> </ul>
<b>Health Administration Policy and Leadership</b>	Master of Health Administration, Policy and Leadership (MHAPL)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Health Communication</b>	Graduate Diploma in Health Communication (GradDipHthComm)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Human Resources Management</b>	Graduate Certificate in Human Resources Management (GradCertHRM)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• International students must commence in Semester 1 only.</li> </ul>
	Graduate Diploma in Human Resources Management (GradDipHRM)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Master of Human Resources Management (MHRM)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)</li> </ul>
<b>Human Resources and Safety</b>	Graduate Certificate in Human Resources and Safety (GradCertHRS)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Information Technology</b>	Graduate Certificate in Information Technology (GradCertIT)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only; Murdoch campus (external)</li> </ul>
	Graduate Diploma in Information Technology Management (GradDipITMan)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>

Group	Course	Offerings
	Graduate Diploma in Internetworking and Security (GradDipIntwSecur)	• Murdoch campus (internal)
	Master of Information Technology (MIT)	• Murdoch campus (internal)
<b>International Affairs</b>	Master of International Affairs and Security (MIAS)	• Murdoch campus (internal)
<b>Law</b>	Graduate Certificate in Legal Practice (GradCertLP)	• Murdoch campus (internal)
<b>Leadership, Strategy and Innovation</b>	Executive Master in Leadership, Strategy and Innovation (EMLeadershipStratInnov)	• Murdoch campus (internal) • Murdoch campus (external) • This course is not available to International Students on a Student Visa.
<b>Marketing</b>	Graduate Certificate in International Marketing (GradCertIM)	• Murdoch campus (internal) • This course is not available to international students studying in Australia on a student visa; it is available to international students on other visas if visa conditions allow.
<b>Media Production</b>	Graduate Certificate in Media Production (GradCertMedProd)	• Not currently available to new admissions
	Graduate Diploma in Media Production (GradDipMedProd)	• Not currently available to new admissions
<b>Migration Law</b>	Graduate Certificate in Australian Migration Law and Practice (GradCertAusMigLaw)	• Murdoch campus (internal)
<b>Plant Biosecurity</b>	Graduate Certificate in Plant Biosecurity (GradCertPlantBiosec)	• Murdoch campus (external) • International students must commence in Semester 1 only.
<b>Policy Studies</b>	Graduate Certificate in Health Administration, Policy and Leadership (GCHAPL)	• Murdoch campus (internal) • Murdoch campus (external)
<b>Psychology</b>	Graduate Diploma in Consultancy Psychology (GradDipConsultPsych)	• Murdoch campus (internal) • Some units only: Murdoch campus (external)
	Graduate Diploma in Psychology (GradDipPsych)	• Murdoch campus (internal)
	Master of Applied Psychology (Clinical Psychology) (MAppPsych)	• Murdoch campus (internal)
	Master of Applied Psychology (Organisational Psychology) (MAppPsych)	• Murdoch campus (internal)
	Master of Applied Psychology (Professional) (MAppPsych(Professional))	• Murdoch campus (internal)
	Master of Applied Psychology + Doctor of Philosophy (MAppPsych+PhD)	• Murdoch campus (internal)
	Doctor of Psychology (Organisational Psychology) (DPsych)	• Murdoch campus (internal)
<b>Public Policy and Management</b>	Master of Public Policy and Management (MPPM)	• Murdoch campus (internal)
<b>Religion</b>	Master of Chaplaincy (MChap)	• Murdoch campus (internal) • Some units only: Murdoch campus (external) (all but one unit)
<b>Safety Science</b>	Graduate Diploma in Safety Science	• Murdoch campus (internal) • Some units only: Murdoch campus (external) (all but one unit)
<b>Sustainability</b>	Master of Sustainable Development (MSustDev)	• Murdoch campus (internal) • Murdoch campus (external)
<b>Tertiary and Adult Education</b>	Graduate Certificate in Tertiary and Adult Education (GradCertTerAdEd)	• Murdoch campus (internal) • Murdoch campus (external)
	Graduate Diploma in Education (Tertiary and Workplace) (GradDipEd)	• Murdoch campus (internal) • Murdoch campus (external)
<b>Theology</b>	Graduate Certificate in Theology (GradCertTheol)	• Murdoch campus (internal) • Murdoch campus (external)
	Graduate Diploma in Chaplaincy (GradDipChap)	• Murdoch campus (internal) • Murdoch campus (external)

Group	Course	Offerings
	Graduate Diploma in Theology (GradDipTheol)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Master of Divinity (MDiv)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Veterinary Science</b>	Master of Veterinary Clinical Studies (MVetClinStud)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• This course is not available to International students.</li> </ul>
	Master of Veterinary Studies (Conservation Medicine) (MVS)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal) (subject to approval of Academic Chair)</li> <li>• Murdoch campus (external)</li> </ul>
	Master of Veterinary Studies (Small Animal Practice) (MVS)	<ul style="list-style-type: none"> <li>• Not currently available to new admissions</li> <li>• This course is not available on campus and so is not available to international students studying in Australia on a student visa; however, graduate students who have successfully completed the Postgraduate Certificate in Small Animal Practice (International) (C1087) are eligible to apply for external study only.</li> </ul>
	Master of Veterinary Studies (Veterinary Surveillance) (MVS)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Water Treatment and Desalination</b>	Graduate Diploma in Water Treatment and Desalination (GradDipWtTrmt)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Master of Water Treatment and Desalination (MWatTrmt)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Web Communication</b>	Graduate Diploma in Web Communication (GradDipWebComm)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Wildlife Health and Conservation</b>	Master of Wildlife Health and Conservation (MWildlifeHth)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal) (subject to approval of Academic Chair)</li> <li>• Murdoch campus (external)</li> </ul>

Group	Course	Offerings
<b>Graduate Research Degrees</b>		
<b>Education</b>	Master of Education (Research) (MEd(Res))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
	Doctor of Education (EdD)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>
<b>Information Technology</b>	Doctor of Information Technology (DIT)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Some units only; Murdoch campus (external)</li> </ul>
<b>Law</b>	Master of Laws by Research (LLM(Res))	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external) (subject to approval on a case-by-case basis)</li> </ul>
<b>Psychology</b>	Master of Applied Psychology + Doctor of Philosophy (MAppPsych+PhD)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
	Doctor of Psychology (Clinical Psychology) (DPsych)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> </ul>
<b>Research Degrees - General</b>	Master of Philosophy (MPhil)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Mandurah campus (internal)</li> <li>• Mandurah campus (external)</li> <li>• Rockingham campus (internal)</li> <li>• Rockingham campus (external)</li> </ul>
	Research Masters (with Training)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Mandurah campus (internal)</li> <li>• Mandurah campus (external)</li> <li>• Rockingham campus (internal)</li> <li>• Rockingham campus (external)</li> </ul>

Group	Course	Offerings
	Doctor of Philosophy (PhD)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> <li>• Mandurah campus (internal)</li> <li>• Mandurah campus (external)</li> <li>• Rockingham campus (internal)</li> <li>• Rockingham campus (external)</li> </ul>
<b>Veterinary Science</b>	Doctor of Veterinary Medical Science (DVetMedSc)	<ul style="list-style-type: none"> <li>• Murdoch campus (internal)</li> <li>• Murdoch campus (external)</li> </ul>

## ACCOUNTING

### MASTER OF PROFESSIONAL ACCOUNTING (MPA)

School of Business and Governance

Master of Professional Accounting (MPA)

Course Codes: M1211

Duration: 2 years full-time (over 4 semesters) or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal)

Restriction: All graduate courses are subject to restriction.

Accounting is an integral part of the management and governance of any enterprise. It acts as a decision-making aid by providing the information necessary for planning, control and performance evaluation. The stakeholders of an entity rely on the accounting information to assist in a variety of decisions including the acquisition or sale of shares, lending of funds and the provision of services or goods.

This course is aimed at students from any discipline seeking to acquire an accredited accounting qualification.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher, or equivalent training, or professional training. Students who have completed a degree with an accounting major from an Australian university will not be considered for admission.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Professional Recognition:

CPA Australia, Institute of Chartered Accountants in Australia and New Zealand (CAANZ) and Institute of Public Accountants (IPA). Students can satisfy the entry requirements for admission to membership of the professional accounting bodies. These include Associate membership of CPA Australia, and direct entry into the Institute of Chartered Accountants in Australia CA Programme and Associate membership of the Institute of Public Accountants (IPA). Students who have been granted Advanced Standing must discuss their enrolment and selection of units with the Academic Chair as their Advanced Standing may affect their ability to satisfy the admission requirements to the professional accounting bodies on completion of their degree.

### Course Structure - 48 credit points

#### Core Units - 42 credit points

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS544 Accounting Processes - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS678 Corporate Accounting - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

MBS614 Taxation Principles - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS669 Management Accounting - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

MBS679 Accounting Theory and Governance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

MBS680 Auditing - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

MBS686 Economics and Business Strategy - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS520 Research Preparation for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal, TSA-internal

MBS659 Quantitative Research for Business - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

MBS518 Principles of Business Governance - 3 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

MBS665 Business Valuation - 3 points  
MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

#### Specified Electives - 6 credit points

Select from the following:

MBS643 Business and Governance Research Practicum - 6 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

MBS663 Leading the Engaged Enterprise - 6 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

MBS664 Strategies for Growth and Excellence - 6 points  
MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

MBS654 Business Professional Placement - 6 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

## ASIAN STUDIES

### GRADUATE CERTIFICATE IN ASIAN STUDIES (GRADCERTASIANST)

School of Arts

Graduate Certificate in Asian Studies (GradCertAsianSt)

Course Codes: C1120

Duration: 1 semester full-time or part-time equivalent (depending on unit selection)

#### Availability:

- Not currently available to new admissions
- This course is not normally available to international students studying in Australia on a student visa, due to visa regulations. However, exceptions can be made, conditional on undertaking

certain units: contact The Student Centre for details. It is available to international students on other visas if visa conditions allow.

*Restriction: All graduate courses are subject to restriction.*

This course provides the opportunity to study Asian culture, society, politics, media and environment. It is available to graduates of any discipline and aims to develop cultural literacy concerning the Asian region, of particular importance for teachers, journalists, aid workers, diplomats and other professionals whose careers require cross-cultural competence.

Graduates of the certificate may apply for admission to the Research Masters with Training (Asian Studies), or one of the Coursework Masters in Community Development, Sustainable Development or Development Studies. Students may be eligible for advanced standing.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher in any discipline, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

There may be limited choice of units if completing this course in the external mode. Access to adequate library resources and to the Internet is essential for external students.

#### **Employment Prospects:**

Teaching, overseas aid and development, journalism, diplomacy.

#### **Main Research Areas:**

Asia Research Centre

### **Course Structure - 12 credit points**

#### **Core Units - 12 credit points**

Select from the following:

JPN543 Semester in Japan - 12 points

OR

IND543 Semester in Indonesia - 12 points

OR

Select at least three units from the following:

AST558 Gender in Asian Societies - 3 points

JPN514 Postwar Japan - 3 points

AST530 Nations, Narratives, Cultures in Contemporary Asia - 3 points

AST556 Perceptions of South-East Asian Society - 3 points

AST531 Rise of Asia and Modern History - 3 points

One of the following units may be credited to the Graduate Certificate in Asian Studies:

SUS512 Sustainability, Ecology and Communities - 3 points

AST650 Culture, Communities and Sustainability in Asia - 3 points

---

### **GRADUATE DIPLOMA IN ASIAN LANGUAGE (IN-COUNTRY) (GRADDIPASIANLANGIN-COUNTRY)**

School of Arts

*Graduate Diploma in Asian Language (In-Country)*

*(GradDipAsianLangIn-Country)*

Course Codes: G1072

Duration: 1 year full-time

#### **Availability:**

- Murdoch campus (internal) (this course requires students to reside in Asia for the duration)

*Restriction: All graduate courses are subject to restriction.*

For political, economic, environmental and cultural reasons, Japan and Indonesia will play an increasingly important role in contemporary global change. The Graduate Diploma in Asian Language (In-Country) offers the opportunity to study the literature, media, religion, history, politics, economics, sociology and anthropology of Japan or Indonesia in the relevant language while enrolled in a university in the selected country. This provides the opportunity to develop advanced language skills, experiential knowledge of the region, while building personal networks in the community.

#### **Admission Requirements (Onshore):**

AQF Level 7 (Bachelors) degree with 3 years of study in the relevant Asian language, or equivalent.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course requires the student to complete studies at a university in Asia while residing in Asia.

#### **Employment Prospects:**

This course is intended to serve the career development needs of those seeking to work in areas such as teaching, foreign affairs, law, public service, business, and the media who require a broad interdisciplinary background in the Asian cultural, political and economic context.

#### **Main Research Areas:**

Asian studies, contemporary Asia, international relations, intercultural relations

#### **Study Environment:**

Study is undertaken in an intensive, immersion environment, unavailable at undergraduate environment in Australia.

#### **Graduate Certificate in Asian Studies:**

The Graduate Certificate in Asian Studies may be substituted for one semester of in-country study in Japan or Indonesia to satisfy partial requirements for the Diploma in Asian Studies.

### **Course Structure - 24 credit points**

#### **Core Units**

IND543 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

plus a further enrolment in

IND543 Semester in Indonesia - 12 points  
MURDOCH: S1-internal, S2-internal

OR

JPN543 Semester in Japan - 12 points  
MURDOCH: S1-internal, S2-internal

plus a further enrolment in

JPN543 Semester in Japan - 12 points  
MURDOCH: S1-internal, S2-internal



## GRADUATE DIPLOMA IN ASIAN STUDIES (GRADDIPASIANST)

School of Arts

Graduate Diploma in Asian Studies (GradDipAsianSt)

Course Codes: G1064

Duration: 1 year full-time or part-time equivalent subject to unit availability

### Availability:

- Not currently available to new admissions

Restriction: All graduate courses are subject to restriction.

For political, economic, environmental and cultural reasons, the countries of East and South-East Asia will play an increasingly important role in contemporary global change. The Graduate Diploma in Asian Studies offers the opportunity to study the literature, media, religion, history, politics, economics, sociology and anthropology of the Asian region.

### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher, or equivalent training, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

This course is intended to serve the career development needs of teachers and members of other professional groups in the areas of foreign affairs, law, public service, business, and journalism who require a broad interdisciplinary background in the Asian cultural, political and economic context.

### Further Study:

Graduates of the certificate may apply for admission to the Research Masters with Training (Asian Studies), or one of the coursework Masters in Community Development, Sustainable Development or Development Studies. Students may be eligible for advanced standing.

## Course Structure - 24 credit points

### Core Units - 24 credit points

Students may take an Asian language unit as one of the core units, however the Academic Chair must be consulted to establish level of study.

With the approval of the Academic Chair, students with the relevant proficiency in either Indonesian or Japanese language may enrol in the semester in that country. Subject to Academic Chair approval, students may complete 12 or 24 points in country.

Select from the units below, with at least 9 points from the Asian Society and Culture list.

### Asian Society and Culture - 9 credit points

AST558 Gender in Asian Societies - 3 points

AST530 Nations, Narratives, Cultures in Contemporary Asia - 3 points

AST531 Rise of Asia and Modern History - 3 points

JPN514 Postwar Japan - 3 points

AST556 Perceptions of South-East Asian Society - 3 points

AST650 Culture, Communities and Sustainability in Asia - 3 points

### Language

JPN543 Semester in Japan - 12 points

(Academic Chair must approve enrolment.)

IND543 Semester in Indonesia - 12 points

Students may also select an undergraduate-level unit in language and should consult with the Academic Chair to determine the appropriate level.

### Theoretical Comparative and Applied Context.

Select from the following:

AST612 Anthropology and Its Others - 3 points

COD545 Community Development Theory and Practice - 3 points

SUS512 Sustainability, Ecology and Communities - 3 points

SUS523 Cities and Sustainability - 3 points

Students from non-English language backgrounds may substitute the unit

TLC501 Communication Skills for Postgraduate Study - 3 points

for one of the Specified Electives in the Theoretical, Comparative and Applied Context Stream.

## MASTER OF ASIAN STUDIES (MASIANST)

School of Arts

Master of Asian Studies (MASianSt)

Course Codes: M1216

Duration: 2 years full-time or part-time equivalent

### Availability:

- Not currently available to new admissions

Restriction: All graduate courses are subject to restriction.

The countries of East and South-East Asia will play an increasingly important role in global change in the twenty-first century. This course is intended to provide graduates of any discipline with training in the culture, politics, economics, history and environment of the Asian region.

### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher in any discipline, or equivalent training, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

This course is intended to serve the career development needs of teachers and members of other professional groups in the areas of foreign affairs, law, public service, business, and journalism who require a broad interdisciplinary background in the Asian cultural, political and economic context.

### Project/Dissertation:

The Masters offers a coursework-only program or a combination of coursework with a 3- or 6-point project or 12-point dissertation in the research stream.

### External Study:

Many of the units are available in the external mode, including the Indonesian language units.

## Course Structure - 48 credit points

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

**Year 1 - 24 credit points****Specified Electives - 24 credit points**

Select from the following lists, with at least 9 points from Asian Society and Culture.

**Asian Society and Culture - 9 credit points**

Select from the following:

AST530 Nations, Narratives, Cultures in Contemporary Asia - 3 points

AST531 Rise of Asia and Modern History - 3 points

AST556 Perceptions of South-East Asian Society - 3 points

JPN514 Postwar Japan - 3 points

AST558 Gender in Asian Societies - 3 points

**Theoretical, Comparative and Applied Context**

Select from the following:

COD545 Community Development Theory and Practice - 3 points

EDN519 International Education: Issues and Practices - 3 points

SUS512 Sustainability, Ecology and Communities - 3 points

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points

Students from non-English language backgrounds may substitute the unit

TLC501 Communication Skills for Postgraduate Study - 3 points

for one of the Specified Electives in the Theoretical, Comparative and Applied Context Stream.

**Language**

With the approval of the Academic Chair, students with the relevant proficiency in either Indonesian or Japanese language may enrol in the semester in that country. Subject to Academic Chair approval, students may complete 12 or 24 points in country.

Asian Language units may also be taken, subject to Academic Chair approval.

JPN543 Semester in Japan - 12 points

IND543 Semester in Indonesia - 12 points

or 6 points from undergraduate Asian Language units according to assessed competence.

**Year 2 - 24 credit points****Core Units - 12 or 18 credit points****Research Methods Unit - 3 credit points**

ART604 Advanced Research Methods - 3 points

OR

SWM516 Policy Research and Evaluation - 3 points

**Theory Unit - 3 credit points**

AST612 Anthropology and Its Others - 3 points

**Capstone Unit - 6 or 12 credit points**

AST632 Asian Studies Project - 6 points

OR

ART607 In-Country Studies Indonesia - 6 points

OR

AST634 Asian Studies Dissertation - 12 points

**Specified Electives - 6 to 12 credit points**

Select units from the following lists.

**Asian Society and Culture**

AST650 Culture, Communities and Sustainability in Asia - 3 points

MCM682 Global Media: Asia-Pacific Perspectives - 3 points

JPN652 Japanese Advanced Language Project - 3 points

IND652 Indonesian Advanced Language Project - 3 points

**Global Context**

SUS611 Resilient Regions: People and Practice - 3 points

MBS651 Leading and Managing Nonprofit Organisations - 3 points

MCM604 People, Corporates and Globalisation - 3 points

MCM605 Public Relations, Communication and Culture - 3 points

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points

---

**BIOSECURITY****See also:**

Plant Biosecurity

---

**MASTER OF BIOSECURITY (MBIOSEC)**

School of Veterinary and Life Sciences

Master of Biosecurity (MBiosec)

Course Codes: M1248

Duration: 1.5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (all but one unit)

Restriction: All graduate courses are subject to restriction.

Biosecurity is a growing field of activity for many professionals involved in agriculture, the environment and international and domestic trade. This growth is driven by the need to maintain agricultural and environmental integrity in a world where, due to ever increasing levels of trade and human movement, exotic organisms pose major and ongoing threats. Biosecurity is central to the management of these threats, with a continuum of activities involving risk analysis, quarantine and surveillance to stop the entry of exotic organisms, rapid emergency response in the event of an exotic incursion, and then the management of pest and disease organisms if they permanently establish and impact on trade.

This course has been developed in consultation with representatives from Canada, United States, New Zealand and Australia. Students graduating from the course can do so with the knowledge that their degree will meet the highest level of industry requirement.

**Admission Requirements (Onshore):**

Completion of the Graduate Certificate or Graduate Diploma in Plant Biosecurity or an equivalent AQF Level 8 qualification, including honours, in the biological, ecological, environmental or animal sciences. Students with a Bachelor's degree in the biological, ecological, environmental or animal sciences with at least three years of relevant work experience are also eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Internet access is required for all students.

**Employment Prospects:**

Graduates will be able to pursue careers in biosecurity, quarantine and pest management, acting in technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State and Federal Biosecurity Agencies, Plant or Animal Health Australia and private industry, or their international counterparts.

**Professional Recognition:**

Graduates will be eligible to apply for membership to societies such as the Australian Entomological Society, the Australian Plant Pathology Society, the Australian Ecological Society, the Australian Institute of Agricultural Science, the Australian Society of Horticultural Sciences and the Australian Society for Risk Analysis.

**Main Research Areas:**

Detection, diagnostics, risk analysis, risk mitigation, communication

**Course Structure - 36 credit points****Core Units - 24 credit points**

BIO629 Biosecurity Masters Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

BIO639 Global Biosecurity - 3 points  
MURDOCH: S1-internal, S1-external

VET657 Risk Analysis from Farm to Fork - 3 points  
MURDOCH: S1-internal

MCM605 Public Relations, Communication and Culture - 3 points  
MURDOCH: S2-internal

OR

OTH546 Community Engagement (Charles Darwin University SBI401) - 3 points equivalent  
MURDOCH: S2-external

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Specified Electives - 12 credit points**

Select from the following:

VET641 Principles of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET640 Infectious and Emerging Diseases - 3 points  
MURDOCH: S2-external

BIO537 Plant Biosecurity: Detection and Diagnostics - 3 points  
MURDOCH: S1-external

BIO606 Aquatic Biosecurity - 3 points  
Not available this year

VET699 Epidemiological Studies: Design and Analysis - 3 points  
MURDOCH: S1-internal, S1-external

VET603 One Health: Wildlife Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

VET655 One Health Management and Leadership - 3 points  
MURDOCH: S1-external

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

BIO607 Invasive and Pest Species Management - 3 points  
Not available this year

**BUSINESS ADMINISTRATION****GRADUATE CERTIFICATE IN BUSINESS ADMINISTRATION (GRADCERTBUSADMIN)**

School of Business and Governance

Graduate Certificate in Business Administration (GradCertBusAdmin)

Course Codes: C1106

Duration: 1 semester full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Graduate Certificate in Business Administration provides the opportunity to develop basic analytical skills needed to make sound business decisions. The course can be completed in one semester of full-time study, or part time equivalent. Students who successfully complete the Graduate Certificate may apply for admission for further post graduate studies.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher; or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This course offers an opportunity to study four core units in an MBA course and exit with a graduate qualification.

**Main Research Areas:**

Business, Management, Finance

**Course Structure - 12 credit points****Core Units - 6 credit points**

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

**Specified Electives - 6 credit points**

Choose two of the following:

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS574 Strategic Research in International Markets - 3 points  
MURDOCH: SP21-internal

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

**GRADUATE CERTIFICATE IN BUSINESS ADMINISTRATION (MASTERCLASS) (GRADCERTBUSADMIN)**

School of Business and Governance

Graduate Certificate in Business Administration (GradCertBusAdmin)

Course Codes: C1115

Duration: Part-time study concurrent with Bachelor's degree

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Only available to international students who are studying concurrently in a Bachelor's degree on a full-time load.

*Restriction: All graduate courses are subject to restriction.*

The Graduate Certificate in Business Administration (MasterClass) is studied concurrently with an undergraduate degree.

All candidates must have completed at least 24 credit points of any undergraduate degree at Murdoch University or the equivalent of one year of full-time study in another recognised degree offered by an Australian or international tertiary institution.

**Admission Requirements (Onshore):**

Application for MasterClass is by invitation or nomination. Invitations based on completion of 24 points in any Murdoch undergraduate degree and academic achievement within the top 5 percent by grade point average. Nomination based on completion of 24 points in any Murdoch undergraduate degree, evidence of strong academic achievement and demonstrated leadership attributes. Entry to the course via either channel is subject to panel interview.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Course Structure - 12 credit points****Core Units - 12 credit points**

MBS5082 Organisational Behaviour and Management - 3 points

MBS5392 Accounting for Managers - 3 points

MBS5072 Strategic Marketing Management - 3 points

MBS6872 Effective Leadership - 3 points

**MASTER OF BUSINESS ADMINISTRATION (MBA)**

School of Business and Governance

*Master of Business Administration (MBA)*

Course Codes: M1256

*Duration: 12 months in accelerated mode or 18 months (with study over three semesters) or part-time equivalent.*

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)
- Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

*Restriction: All graduate courses are subject to restriction.*

The Master of Business Administration (MBA) is oriented to the needs of today's and tomorrow's business leaders. The course comprises 8 units providing expert skills in creating and managing global businesses, leadership, strategy, accounting, economics and finance, marketing, entrepreneurship, and business ethics. The MBA can be completed within a year of full-time study or can be taken over a longer period of time if preferred. There are several intake periods each year.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher and evidence of two years of work experience; or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This course equips graduates with professional expertise in business administration that is highly prized by employers world-wide. Murdoch MBA graduates are well-placed to pursue rewarding careers and leadership roles within business, government and non-government organisations (NGOs).

**Main Research Areas:**

management, economics, accounting, finance, marketing, entrepreneurship, business ethics

**Course Structure - 36 credit points****Core Units - 30 credit points**

MBS661 Global Business in the Asian Century - 6 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

OR

MBS6611 Global Business - 6 points

DUBAI-ISC: TMD-internal

MBS662 Business, Society and the Environment - 6 points

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TMD-internal

KAPLAN-SGP: TMA-internal

MBS663 Leading the Engaged Enterprise - 6 points

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS664 Strategies for Growth and Excellence - 6 points

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS546 Business Finance - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS539 Accounting for Managers - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

**Specified Electives - 6 credit points**

Select from the following:

MBS538 Organisational Behaviour and Management - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

DUBAI-ISC: TJD-internal, TMD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS673 Entrepreneurship and Innovation Management - 3 points

MURDOCH: W-internal, W-external

DUBAI-ISC: TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS537 Strategic Marketing Management - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

MBS574 Strategic Research in International Markets - 3 points

MURDOCH: SP21-internal

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TMA-internal

SWM517 Health Policy and Governance - 3 points

MURDOCH: S1-internal, S1-external

SWM518 Health Economics and Finance - 3 points

MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

MBS684 Managing Strategic Risk and Projects - 6 points

Not available this year

---

## **MASTER OF BUSINESS ADMINISTRATION PROFESSIONAL PRACTICE (MBA(PP))**

School of Business and Governance

Master of Business Administration Professional Practice (MBA(PP))

Course Codes: M1257

Duration: 2 years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The MBA Professional Practice is designed to offer leading-edge business administration knowledge and skills, with a focus on opportunities to acquire high level professional experience through professional placements and applied research projects.

### **Admission Requirements (Onshore):**

To qualify for this course, applicants should:

- have a Bachelors Degree (AQF 7) or equivalent; OR
  - Alternative entry via Portfolio to contain:
    - . Curriculum Vitae
    - . Valid GMAT score or Graduate Record Examinations (GRE)
    - . A Written statement of no more than 800 words. The statement should address reasons why enrolment in the course will enhance the applicant's early career professional portfolio
- With the option of an interview for alternative entry applicants at the discretion of the School.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### **Employment Prospects:**

Students of Murdoch's MBA Professional Practice graduate with both business administration expertise and an impressive portfolio of CV-building professional experiences and networks, acquired through the completion of a professional business practicum or an applied business research project. These highly skilled, experienced and connected Murdoch MBA graduates are well placed to pursue rewarding careers and leadership roles in businesses, government and non-government organisations (NGOs) within Australia or internationally.

### **Main Research Areas:**

management, economics, accounting, finance, marketing, entrepreneurship, business ethics

### **Other Information:**

Students who want to complete their MBA early in their career have the opportunity to select the MBA(PP) program which is designed specifically for recent graduates and/or those with limited professional work experience. The MBA(PP) provides early career professionals with the opportunity to engage in learning activities that equip them with the career management tools needed to succeed.

## **Course Structure - 48 credit points**

### **Core Units - 36 credit points**

Students must complete 12 points at 500 level before enrolling in

any 600 level units.

At least 24 Credit Points are required at 600 level (AQF level 9)

MBS664 Strategies for Growth and Excellence - 6 points

MURDOCH: S2-internal, S2-external

MBS546 Business Finance - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS539 Accounting for Managers - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS538 Organisational Behaviour and Management - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS537 Strategic Marketing Management - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS673 Entrepreneurship and Innovation Management - 3 points

MURDOCH: W-internal, W-external

MBS568 Organisational Change, Management and Consultancy - 3 points

MURDOCH: S2-internal, S2-external

### **Professional Portfolio - 12 credit points**

Select all units from only one of the following Portfolio options:

#### **Option 1**

MBS654 Business Professional Placement - 6 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

Or

MBS643 Business and Governance Research Practicum - 6 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

MBS685 Project Management - 3 points

MURDOCH: S1-internal, W-internal, W-external

MBS520 Research Preparation for Business - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### **Option 2**

MBS644 Business and Governance Research Practicum - 9 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

MBS520 Research Preparation for Business - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students may also consider including the ACICIS Business Professional Practicum as a possible third practicum option. The Practicum is offered each year in Summer Term and students will be awarded 6 points of credit when they enrol and completed ART607 In-Country Studies Indonesia. Please speak to the Academic Chair if you wish to take up this option.

### **Specified Electives - 12 credit points**

Select all units from one of the following Specialisations:

---

#### **Nonprofit and Health Management**

MBS651 Leading and Managing Nonprofit Organisations - 3 points

MURDOCH: SP17-internal, SP17-external

AND EITHER

MBS662 Business, Society and the Environment - 6 points

MURDOCH: S1-internal, S1-external

and

MBS689 Risk Management - 3 points

MURDOCH: SUM-internal, SUM-external

OR

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

and

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external,  
W-internal, W-external

and

MBS603 Data, Metrics, Reporting and Analytics - 3 points  
MURDOCH: S2-internal, S2-external

---

### People Management

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBS663 Leading the Engaged Enterprise - 6 points  
MURDOCH: S2-internal, S2-external

Either

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

Or

EDN671 Mentoring - 3 points  
MURDOCH: UA4-internal

---

### Sustainability

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH:  
SUM-internal (quota of 10 places), SUM-external, U-internal (quota  
of 10 places), U-external</span>

MBS662 Business, Society and the Environment - 6 points  
MURDOCH: S1-internal, S1-external

---

## COMMUNICATION AND MEDIA STUDIES

---

### MASTER OF COMMUNICATION MANAGEMENT (MCOMM)

School of Arts

Master of Communication Management (MCommM)

Course Codes: M1209

Duration: 1.5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course focuses on managing communication within an international context, emphasising the Asia-Pacific.

Informed by international scholarship in a range of disciplines and by professional practice, the course will develop students' professional and intellectual skills to prepare them for a career in communication and media related professions, including but not limited to public relations, corporate communication, web communication, media liaison, or consultancy related to the media and creative industries. Its purpose is also to develop students' skills and independent learning ability to future-proof their personal development.

**Admission Requirements (Onshore):**

(i) A recognised Bachelor degree (AQF Level 7) in the discipline and at least one year of relevant workplace experience, such as in public relations, journalism, media and communication sectors;  
OR

(ii) A recognised Bachelor degree (AQF Level 7) and at least one year of approved graduate study in a relevant discipline. Students who have completed a graduate diploma or equivalent in the disciplinary area may apply for advanced standing of up to 12 credit points;  
OR

(iii) A minimum of ten years' work experience in the media and communication sectors or in a professional capacity, or a minimum of five years' work experience in a managerial role, together with evidence of ability to carry out research for and/or write professional reports.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Executive or managerial positions in communication and media related fields, including corporate communications, public relations, media liaison or consultancy in the media and creative industries.

**Professional Accreditation:**

Accredited by the Public Relations Institute of Australia (PRIA).

**Main Research Areas:**

Strategic communication, public relations, journalism, cultural studies, media and communication studies.

**Course Structure - 36 credit points****Core Units - 18 credit points**

MCM682 Global Media: Asia-Pacific Perspectives - 3 points  
MURDOCH: S2-internal

MCM604 People, Corporates and Globalisation - 3 points  
MURDOCH: S2-internal

MCM605 Public Relations, Communication and Culture - 3 points  
MURDOCH: S2-internal

MCM501 Critical and Ethical Issues in Communication - 3 points  
MURDOCH: S1-internal

MCM502 Web Strategy - 3 points  
MURDOCH: S1-internal

MCM506 Strategic Communication - 3 points  
MURDOCH: S1-internal

**Specified Electives - 18 credit points**

Select from the following groups:

**Research Option**

ART610 Masters by Coursework Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external,  
S2-internal, S2-external, Y-internal, Y-external

AND

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

AND 3 points from the Specified Elective list below.

**Project Option**

MCM683 Communication Management: Professional Perspectives - 6 points

Not available this year

AND

MCM680 Communication Management Research Project - 6 points  
MURDOCH: S1-internal, S2-internal, Y-internal

AND 6 points from the Specified Elective list below.

#### **Specified Elective List**

MCM507 Health Communication - 3 points  
MURDOCH: S1-internal

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

WEB566 Social Media Analysis - 3 points  
MURDOCH: S1-internal

WEB567 Advanced Web Communication Project - 3 points  
MURDOCH: S2-internal

WEB564 Web Analytics - 3 points  
MURDOCH: S2-internal

WEB565 Web Planning - 3 points  
MURDOCH: S2-internal

---

## **COMMUNITY DEVELOPMENT**

---

### **GRADUATE CERTIFICATE IN COMMUNITY DEVELOPMENT (GRADCERTCOMMDEV)**

School of Arts

*Graduate Certificate in Community Development (GradCertCommDev)*

Course Codes: C1107

Duration: 2 to 3 semesters part-time (due to unit availability)

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International students must commence in Semester 2 only.

*Restriction: All graduate courses are subject to restriction.*

This course builds upon the student's knowledge of community development theory and practice. In addition, the course provides students with an understanding of the broad range of settings where community development is carried out and the social and policy forces that impact on its application. It is designed for community work practitioners as well as graduates with an interest in moving into emerging fields that embrace community development.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher, or equivalent training though not necessarily in an area directly related to the proposed course, or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode.

#### **Employment Prospects:**

This course will enhance practitioners qualifications and open opportunities for those interested in working in industry areas such as community and social services, local government, overseas aid work, economic and social planning, sustainable development and Indigenous governance.

#### **Main Research Areas:**

Social Policy, Community Studies, Sociology.

### **Course Structure - 12 credit points**

#### **Specified Electives - 12 credit points**

Select from the following:

COD545 Community Development Theory and Practice - 3 points  
MURDOCH: S1-internal, S1-external

COD505 Mining, Communities and Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

COD508 Community Development Internship - 6 points  
MURDOCH: S2-internal, S2-external

AST558 Gender in Asian Societies - 3 points  
MURDOCH: S2-internal, S2-external

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

---

### **GRADUATE DIPLOMA IN COMMUNITY DEVELOPMENT (GRADDIPCOMMDEV)**

School of Arts

*Graduate Diploma in Community Development (GradDipCommDev)*

Course Codes: G1061

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (all but one unit)

*Restriction: All graduate courses are subject to restriction.*

In addition to building upon students' knowledge of community development theory and practice, the Graduate Diploma in Community Development is designed to develop knowledge of social research and community participatory methods. The course combines the study of community development theory, settings and policy formation with the development of knowledge and skills in community planning, research methods and program evaluation. As part of their studies students will either undertake a placement with a community organisation or carry out a community-based research project.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher, or equivalent training, though not necessarily in an area directly related to the course, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode.

#### **Employment Prospects:**

This course will enhance practitioners qualifications and open opportunities for those interested in social research and working in industry areas such as community and social services, local government, overseas aid work, economic and social planning, sustainable development and Indigenous governance.

#### **Main Research Areas:**

Social Policy, Community Studies, Sociology.

### **Course Structure - 24 credit points**

**Core Units - 18 credit points**

COD545 Community Development Theory and Practice - 3 points  
MURDOCH: S1-internal, S1-external

COD505 Mining, Communities and Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH:  
SUM-internal (quota of 10 places), SUM-external, U-internal (quota  
of 10 places), U-external</span>

EDN546 Dynamics of Cultural Diversity in the Workplace and the  
Community - 3 points  
MURDOCH: S1-internal

COD508 Community Development Internship - 6 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

AST650 Culture, Communities and Sustainability in Asia - 3 points  
MURDOCH: S1-internal, S1-external

AST558 Gender in Asian Societies - 3 points  
MURDOCH: S2-internal, S2-external

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

**MASTER OF COMMUNITY DEVELOPMENT  
(MCOMMDEV)**

School of Arts

Master of Community Development (MCommDev)

Course Codes: M1212

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

People involved with government, neighbourhood groups, social action, overseas aid, schools, local councils, sustainability, Indigenous groups, social services, the arts, business and tourism are all talking about community development as a new way of doing things. The Master of Community Development provides you with an understanding of the practice of community development, the broad range of settings in which it is carried out, social research methods and social policy forces that impact on practice. It also involves students undertaking an original, substantive investigation of a community development issue under the supervision of a Murdoch University staff member.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher, or equivalent training, though not necessarily in an area directly related to the course, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode.

**Employment Prospects:**

This course will enhance practitioners' qualifications and open opportunities for those interested in undertaking social research in settings such as community and social services, local government,

overseas aid work, economic and social planning, sustainable development and Indigenous governance.

**Main Research Areas:**

Social Policy, Community Studies, Sociology.

**Nested Awards:**

Students can opt out of the Masters and exit with the Graduate Certificate or Graduate Diploma in Community Development subject to satisfying the course requirements.

**Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

**Core Units - 27 to 36 credit points****Theory - 21 credit points**

COD545 Community Development Theory and Practice - 3 points  
MURDOCH: S1-internal, S1-external

COD505 Mining, Communities and Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

AST650 Culture, Communities and Sustainability in Asia - 3 points  
MURDOCH: S1-internal, S1-external

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH:  
SUM-internal (quota of 10 places), SUM-external, U-internal (quota  
of 10 places), U-external</span>

COD508 Community Development Internship - 6 points  
MURDOCH: S2-internal, S2-external

**Capstone Experience - 6 to 15 credit points**

Select either:

ART610 Masters by Coursework Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external,  
S2-internal, S2-external, Y-internal, Y-external

and

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

ART6401 Masters by Coursework Research Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external,  
S2-internal, S2-external, SUM-internal, SUM-external, U-internal,  
U-external, Y-internal, Y-external

**Specified Electives - 12 to 21 credit points**

Select from the Professional or Policy Electives below.

**Professional Electives**

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

EDN546 Dynamics of Cultural Diversity in the Workplace and the  
Community - 3 points  
MURDOCH: S1-internal

ART6071 In-Country Studies Indonesia - 12 points

**Policy Electives**

AST558 Gender in Asian Societies - 3 points



MURDOCH: S2-internal, S2-external

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points

MURDOCH: S2-internal, S2-external

SUS523 Cities and Sustainability - 3 points

MURDOCH: S1-internal, S1-external

---

## COUNSELLING

### See also:

Psychology

---

### GRADUATE CERTIFICATE IN COUNSELLING (GRADCERTCOUNSEL)

School of Health Professions

Graduate Certificate in Counselling (GradCertCounsel)

Course Codes: C1111

Duration: 1 semester full-time (if commencing in Semester 1 at Murdoch, or if commencing in Semester 2 at Mandurah) or part-time equivalent, depending on unit selection

#### Availability:

- Murdoch campus (internal)
- Mandurah campus (internal)

Restriction: All graduate courses are subject to restriction.

The Graduate Certificate in Counselling provides students with the opportunity to develop counselling skills that can be utilised in their current employment roles, such as teaching, health care, or human services. It is a starting point where students can begin to develop professional competence and personal readiness for a career in counselling. The course is committed to experiential learning, enabling students to focus on quality of counselling relationships as a key feature of effective counselling practice.

Students who complete the Graduate Certificate in Counselling may apply for admission to the Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies or Masters in Counselling and will be exempt from the units already completed which are common to both degrees.

#### Admission Requirements (Onshore):

Completion of a bachelor degree (AQF Level 7) or equivalent in any discipline. Applications based on previous study or professional experience will be considered on a case-by-case basis. The admission process includes both application and interview.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### Employment Prospects:

The Graduate Certificate provides an introduction to counselling for people wanting to pursue further training. It also provides the opportunity for people to add counselling skills to existing professional roles in health, education, social services or business. Alternatively people with an existing practice in mental health fields can enrol in a Graduate Certificate to develop their skills.

#### Professional Accreditation:

The Graduate Certificate is a step towards the Graduate Diploma in Counselling or Graduate Diploma in Creative Arts Therapies, which are both accredited by the Australian Counselling Association (ACA), or the Master of Counselling degree which has Professional Accreditation with Psychotherapy and Counselling Federation of Australia (PACFA).

#### Professional Recognition:

Employers in a variety of fields, from Counselling, Social Services, Teaching and Nursing, consider the Graduate Certificate as valid for

professional development opportunities.

#### Further Study:

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies, or Masters of Counselling.

### Course Structure - 12 credit points

#### Core Units - 6 credit points

CSL582 Principles of Counselling 1 - 6 points

MURDOCH: S1-internal

MANDURAH: S2-internal

#### Specified Electives - 6 credit points

Select from the following:

CSL583 Counselling Adults - 3 points

MURDOCH: S2-internal

CSL566 Case Conceptualisation and Assessment in Counselling - 3 points

MURDOCH: S1-internal

MANDURAH: S2-internal

CSL581 Group Counselling - 3 points

MURDOCH: S1-internal

MANDURAH: S1-internal

CSL578 Counselling Children and Adolescents - 3 points

MURDOCH: S2-internal

---

### GRADUATE DIPLOMA IN COUNSELLING (GRADDIPCOUNSEL)

School of Health Professions

Graduate Diploma in Counselling (GradDipCounsel)

Course Codes: G1055

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course supports students in developing professional competence and personal readiness for a career in counselling. It is committed to experiential learning, with an emphasis on the counselling relationship, the key feature of effective counselling practice. The critical appraisal of counselling literature combined with applied learning across most units provides students with the opportunity to develop a good foundation of theoretical knowledge and elementary hands-on counselling skills.

Students who complete the Graduate Diploma may apply for admission to the Master of Counselling and will be exempt from the units already completed which are common to both degrees.

#### Admission Requirements (Onshore):

Completion of a bachelor degree (AQF Level 7) or equivalent in any discipline. Applications based on previous study or professional experience will be considered on a case-by-case basis. The admission process includes both application and interview.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### Employment Prospects:

The Graduate Diploma provides the opportunity for people to add core counselling knowledge and skills to existing professional roles in health, education, social services or business. Alternatively people with an existing practice in mental health fields can enrol in a

Graduate Diploma to further develop their skills. Graduates may be employed in government and non-government counselling organisations working with adults, children, families and couples.

**Professional Accreditation:**

The Graduate Diploma is a requisite step towards the Master of Counselling degree which has Professional Accreditation with the Psychotherapy and Counselling Federation of Australia, PACFA.

**Further Study:**

Students who successfully complete the Graduate Diploma may apply for admission to the Master of Counselling.

**Advanced Standing:**

Up to 12 credit points is available (0.5 years) of advanced standing to students who have a Level 8 Graduate Certificate in Counselling or who have successfully completed a minimum of Level 8 units with learning outcomes equivalent to one or more units comprising the Graduate Diploma in Counselling.

**Course Structure - 24 credit points**

**Core Units - 24 credit points**

CSL582 Principles of Counselling 1 - 6 points  
MURDOCH: S1-internal  
MANDURAH: S2-internal

CSL581 Group Counselling - 3 points  
MURDOCH: S1-internal  
MANDURAH: S1-internal

CSL566 Case Conceptualisation and Assessment in Counselling - 3 points  
MURDOCH: S1-internal  
MANDURAH: S2-internal

CSL583 Counselling Adults - 3 points  
MURDOCH: S2-internal

CSL578 Counselling Children and Adolescents - 3 points  
MURDOCH: S2-internal

SHP632 Applied Health Research Methods: From Research to Practice - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MANDURAH: S2-external

CSL576 Introduction to Creative Arts Therapies in Counselling - 3 points  
MURDOCH: S2-internal

**GRADUATE DIPLOMA IN CREATIVE ARTS THERAPIES (GRADDIPARTTHERAPY)**

School of Health Professions

Graduate Diploma in Creative Arts Therapies (GradDipArtTherapy)

Course Codes: G1081

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Mandurah campus (internal)

Restriction: All graduate courses are subject to restriction.

This course supports students to develop professional competence in counselling specialising in Creative Arts Therapies. The course is committed to experiential learning with an emphasis on the person-centred theoretical framework, and the use of creative arts as a therapeutic modality. The experiential seminar approach will require the making of and engagement in creative arts modalities. A critical appraisal of art therapy and counselling literature combined with applied learning will provide students with the opportunity to develop a foundation in both theoretical knowledge and elementary hands-on art therapy and counselling skills.

Students who complete the Graduate Diploma in Creative Arts Therapies may apply for admission to the Masters of Counselling and will be exempt from the units already completed which are common to both degrees. The Counselling Discipline is also planning to create a Masters in Creative Arts Therapies to commence in 2018. The Graduate Diploma in Creative Arts Therapies will be fully nested within the Masters.

**Admission Requirements (Onshore):**

Completion of a bachelor degree (AQF Level 7) or equivalent in any discipline. The admission process includes both application and interview.

Demonstrated English competence via IELTS (or equivalent) with an overall average score of 7.0 with no band falling below 7.0 in each of the four components (listening, reading, writing, and speaking).

**Special Requirements:**

Enrolment may be subject to restriction due to limited equipment and facilities, and professional accreditation requirements.

**Employment Prospects:**

The Graduate Diploma in Creative Arts Therapies provides the opportunity for people to add core counselling knowledge and skills, along with specific expertise in creative arts therapies to existing professional roles in health, education and social services. People with an existing practice in mental health fields can enrol in the Graduate Diploma in Creative Arts Therapies to further develop their skills.

**Professional Accreditation:**

Australian Counselling Association (ACA).

**Professional Recognition:**

Graduates will be eligible to register with the Australian Counselling Association (ACA) as a Level 1 clinician.

**Course Structure - 24 credit points**

**Core Units - 21 credit points**

CSL582 Principles of Counselling 1 - 6 points  
MURDOCH: S1-internal  
MANDURAH: S2-internal

CSL576 Introduction to Creative Arts Therapies in Counselling - 3 points  
MURDOCH: S2-internal

CSL575 Expressive Arts Therapies: Music, Drama and Writing - 3 points  
MANDURAH: S2-internal

CSL577 Art Therapy with Children and Adolescents - 3 points

CSL566 Case Conceptualisation and Assessment in Counselling - 3 points  
MURDOCH: S1-internal  
MANDURAH: S2-internal

SHP632 Applied Health Research Methods: From Research to Practice - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MANDURAH: S2-external

**Specified Electives - 3 credit points**

Select from the following:

CSL581 Group Counselling - 3 points  
MURDOCH: S1-internal  
MANDURAH: S1-internal

CSL583 Counselling Adults - 3 points  
MURDOCH: S2-internal

CSL578 Counselling Children and Adolescents - 3 points  
MURDOCH: S2-internal

## MASTER OF COUNSELLING (MCOUNSEL)

School of Health Professions

Master of Counselling (MCounsel)

Course Codes: M1143

Duration: 2 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Master of Counselling supports students in developing professional competence and personal readiness for a career in counselling. The course is committed to experiential learning, with an emphasis on the counselling relationship, the key feature of effective counselling practice. All students engage in the critical appraisal of selected counselling literature/research. In the second year students can complete a substantial research project addressing an issue in counselling theory or practice, or complete their award through course work and a smaller research project. Two supervised placements provide students with the opportunity to develop an integrated and professional counselling practice.

### Admission Requirements (Onshore):

Completion of a bachelor degree (AQF Level 7) or equivalent in any discipline. Applications based on previous study or professional experience will be considered on a case-by-case basis. The admission process includes both application and interview.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

### Special Requirements:

Students undertaking clinical placements in CSL 679 and CSL 621 must obtain a current police clearance, working with children check, and be up to date on certain immunisations per Murdoch University's immunisation policy. (See [http://www.murdoch.edu.au/Medical/\\_document/Forms/Murdoch-University-Immunisation-Policy.pdf](http://www.murdoch.edu.au/Medical/_document/Forms/Murdoch-University-Immunisation-Policy.pdf)).

### Employment Prospects:

On completion of the course graduates will be eligible to be employed in government and non-government counselling organisations working with adults, children, families and couples. They will be ready for employment in settings requiring individual and group therapy competence.

### Professional Accreditation:

Psychotherapy and Counselling Federation of Australia (PACFA); Australian Counselling Association (ACA).

### Professional Recognition:

Graduates are eligible to apply for intern registration with the Psychotherapy and Counselling Federation of Australia and to then work towards clinical registration with PACFA. Graduates are eligible to apply for Level 2 membership with the Australian Counselling Association and then work towards Level 3/4 Clinical membership.

### Nested Awards:

Students can opt out of the Master of Counselling and exit with either the Graduate Certificate or Graduate Diploma subject to satisfying the relevant course requirements.

### Advanced Standing:

Up to 24 credit points is available of advanced standing to students who have a Level 8 Graduate Diploma in Counselling or who have successfully completed a minimum of Level 8 units with learning outcomes equivalent to one or more units comprising the Master of Counselling.

## Course Structure - 48 credit points

### Core Units - 48 credit points

CSL582 Principles of Counselling 1 - 6 points

MURDOCH: S1-internal

MANDURAH: S2-internal

CSL684 Principles of Counselling 2 - 3 points

MURDOCH: S2-internal

CSL578 Counselling Children and Adolescents - 3 points

MURDOCH: S2-internal

CSL583 Counselling Adults - 3 points

MURDOCH: S2-internal

CSL581 Group Counselling - 3 points

MURDOCH: S1-internal

MANDURAH: S1-internal

CSL679 Counselling Placement and Supervision Group 1 - 6 points

<span data-type="offering" data-unit="CSL679">MURDOCH: DE7-placement (quota of 12 places), S1L-placement (quota of 12 places)</span>

CSL566 Case Conceptualisation and Assessment in Counselling - 3 points

MURDOCH: S1-internal

MANDURAH: S2-internal

CSL621 Counselling Placement and Supervision Group 2 - 6 points

<span data-type="offering" data-unit="CSL621">MURDOCH: DE7-placement (quota of 18 places), S1L-placement (quota of 18 places)</span>

SHP632 Applied Health Research Methods: From Research to Practice - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MANDURAH: S2-external

CSL576 Introduction to Creative Arts Therapies in Counselling - 3 points

MURDOCH: S2-internal

Either:

CSL620 Counselling Research Project - 9 points

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

OR

CSL677 Counselling Research Project - 6 points

MURDOCH: Y-internal

and

CSL674 Trauma Counselling - 3 points

MURDOCH: S1-internal

## DEVELOPMENT STUDIES

### See also:

Policy Studies

## GRADUATE CERTIFICATE IN POLICY AND DEVELOPMENT (GRADCERTPDEV)

Sir Walter Murdoch School of Public Policy and International Affairs

Graduate Certificate in Policy and Development (GradCertPDev)

Course Codes: C1135

Duration: 2 semesters part-time

### Availability:

- Murdoch campus (internal)
- International students must commence in Semester 1 only.

*Restriction: All graduate courses are subject to restriction.*

The Graduate Certificate in Policy and Development prepares students for rewarding careers in a variety of settings. Students gain theoretical foundations, analytical and strategic thinking as well as professional knowledge appropriate for work in government, the not-for-profit and private sectors, in Australia and internationally. Students will develop expertise in development policy, policy analysis and management practice across a range of policy settings. This course is designed for recent graduates and those exploring a new career direction.

**Admission Requirements (Onshore):**

Admission to the Graduate Certificate is available to students who have a recognised Bachelor degree in any area.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Suitable for students looking to work in the public sector, the not-for-profit sector and for professionals who work at the intersection between government and business.

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

SWM511 Critical Approaches to Development - 3 points  
MURDOCH: S1-internal

SWM515 Public Sector Management - 3 points  
MURDOCH: S1-internal

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

**MASTER OF DEVELOPMENT STUDIES (MDS)**

Sir Walter Murdoch School of Public Policy and International Affairs

*Master of Development Studies (MDS)*

Course Codes: M1195

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Master of Development Studies (MDS) is a practical professional degree focussing on the challenges of social, economic, and political development and poverty alleviation. Aimed at students from the developing world and those wanting to work in international development assistance, the MDS concentrates on the nexus of development, politics and governance, social and environmental sustainability, food and health security, international assistance, conflict management, gender relations and other significant issues impacting development.

**Admission Requirements (Onshore):**

Admission to the Master degree is available to students who have a Bachelor's degree in any area.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Suitable for those seeking a career in any aspect of international development, in the public, private or not-for-profit sectors. Students will acquire the knowledge, skills and expertise necessary for careers in international development in a broad range of settings such as regional and international organisations,

government agencies, private firms, and non-government organisations involved in development.

**Advanced Standing:**

A student's advanced standing is assessed at the time of application, taking into account level of higher study and/or professional experience.

Up to 12 points (0.5 year) of advanced standing is available to students with:

- \* A Bachelor degree with a major in a cognate discipline to the Masters course
- \* Or, a Bachelor degree in an unrelated discipline and a Graduate Certificate or Diploma in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline
- \* Or, a Bachelor degree in an unrelated discipline and two years of relevant, documented professional experience.

Up to 24 points (1 year) of advanced standing is available to students with:

- \* An Honours degree or equivalent in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline and at least two years of relevant documented professional experience.

**Course Structure - 48 credit points**

**Core Units - 21 to 30 credit points**

**Theory - 18 credit points**

SWM649 Public Policy and International Affairs Foundations - 6 points  
MURDOCH: S1-internal

SWM611 States, Social Forces and Development - 6 points  
MURDOCH: S2-internal

SWM511 Critical Approaches to Development - 3 points  
MURDOCH: S1-internal

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

**Capstone Experience - 3 to 12 credit points**

Select one of the following options:

EITHER

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM617 Supervised Research Thesis - 6 points  
MURDOCH: S1-internal, S2-internal  
This 10,000-12,000 word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs.

OR

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM6171 Supervised Research Thesis - 9 points  
MURDOCH: S1-internal, S2-internal  
This 12,000 -15,000-word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs.

OR

SWM619 Research Internship - 6 points  
MURDOCH: S1-internal, S2-internal

Students may wish to use this unit (SWM619) to undertake In-Country Studies Indonesia - a 6 point program run during the summer period by ACICIS. Students interested in this option should consult the Capstone Coordinator for application and enrolment information.

Students undertaking extended internship of 12 weeks/500 hours for 12 points should enrol in SWM619 Research Internship and

SWM6191 Internship Professional Placement - 6 points  
MURDOCH: S2-internal

OR

SWM620 Supervised Case Study Project - 3 points  
MURDOCH: S1-internal, S2-internal, W-internal

### Specified Electives - 18 to 27 credit points

Select from the following lists:

#### Professional

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

MBS687 Effective Leadership - 3 points  
Not available this year

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBS651 Leading and Managing Nonprofit Organisations - 3 points  
MURDOCH: SP17-internal, SP17-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

TLC501 Communication Skills for Postgraduate Study - 3 points  
MURDOCH: S1-internal, S2-internal

#### Policy

SWM613 Public Policy Perspectives - 6 points  
MURDOCH: S1-internal

SWM612 Global Governance, Security and Economy - 6 points  
MURDOCH: S2-internal

SWM645 Public Sector Economics - 3 points

SWM635 Security, Conflict and Violence - 3 points  
MURDOCH: S2-internal

SWM515 Public Sector Management - 3 points  
MURDOCH: S1-internal

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

BIO681 Challenges in Food Security - 3 points  
MURDOCH: S2-internal, S2-external

SWM646 Parliamentary Democracy - 3 points

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external,

W-internal, W-external

SWM647 Cultural and Communications Policy - 3 points  
MURDOCH: S2-internal

SWM648 Corruption, Anti-corruption and its Discontents - 3 points  
MURDOCH: S2-internal

SWM629 Thinking and Reasoning Economically - 3 points  
MURDOCH: S1-internal

#### Language

Students may take up to two language units in either Indonesian or Japanese. Placement in language units is at the discretion of the Academic Chair, following an assessment of the student's language skills. There may be restrictions for students completing the Masters in 24 points. Please refer to the Handbook for available units in Indonesian or Japanese.

## EARLY CHILDHOOD EDUCATION

**See also:**  
Education

### GRADUATE CERTIFICATE IN EARLY CHILDHOOD EDUCATION (GRADCERTEARLYCHILDED)

School of Education

Graduate Certificate in Early Childhood Education (GradCertEarlyChildEd)

Course Codes: C1046

Duration: 2 to 4 semesters part-time

#### Availability:

- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course provides students with an opportunity to gain or enhance their knowledge on early childhood education and to explore the educational principles, pedagogy and practices that underpin best practice when supporting young children's learning and development. The course provides a pathway to the Graduate Diploma in Early Childhood Education and Care for those who are Primary qualified teachers (12 points Advanced Standing into 24 point Graduate Diploma).

#### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher, or equivalent training. Teachers who have a Diploma of Teaching are eligible to apply providing they have ten years teaching experience. Please note that the course does not constitute an initial teaching qualification, nor is the course accredited by the Australian Children's Education and Care Quality Authority (ACECQA).

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Professional Recognition:

On completion of the Graduate Certificate in Early Childhood Education students have a widely accepted qualification from a recognised university and are eligible for employment in a leadership capacity in the Australian Early Childhood Education and Care sector.

#### Main Research Areas:

Early childhood education, leadership, learning environments

### Course Structure - 12 credit points

#### Core Units - 9 credit points

EDN520 Advanced Principles and Practices in Early Childhood Education - 3 points

MURDOCH: S1-external

EDN522 Integrated Early Childhood Curriculum for Educators - 3 points

MURDOCH: S2-external

EDN538 Designing Early Childhood Learning Environments - 3 points

MURDOCH: S2-external

### Specified Electives - 3 credit points

Select from the following:

EDN521 Pedagogical Leadership in the Early Years - 3 points  
<span data-type="offering" data-unit="EDN521">MURDOCH: S1-external (closed pending cancellation of the offering)</span>

EDN537 Babies and Toddlers Effective Pedagogies and Toddlers Growing and Learning - 3 points  
MURDOCH: S1-external

Some students may have already completed some of the above units or their equivalents. Exemptions may be obtained for units already completed, in which case students should substitute from the list of Early Childhood Education Studies units provided by the Academic Chair of Early Childhood Education. Applications for exemption should be submitted to the Accreditation Officer.

6

## EDUCATION

### See also:

Early Childhood Education  
Tertiary and Adult Education

### GRADUATE CERTIFICATE IN EDUCATION (INTERNATIONAL EDUCATION) (GRADCERTEDINTLED)

School of Education

Graduate Certificate in Education (International Education)  
(GradCertEdIntlEd)

Course Codes: C1138

Duration: 2 to 3 semesters part-time

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course is designed for teaching professionals. It introduces the history and development of International Education as a field of study. It explores the conceptualisation of international mindedness and the trend to internationalise curriculum. It examines and critiques a range of international curriculum models and practices, and introduces the essential elements of the International Baccalaureate (IB) suite of programmes: Primary Years Programme, Middle Years Programme and Diploma Programme. Students develop a Teaching Portfolio throughout the course and have opportunities to observe and converse with international school teachers. The course is authorised and aligned to the IB Teaching and Learning Certificate.

### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher, or equivalent training. Students who are not qualified teachers but have had at least two years of full-time recent, relevant and satisfactory teaching experience may seek admission to the Certificate, but should note that the course does not constitute an initial teaching qualification.

English competence.

### Special Requirements:

This course requires field experience in IB schools, meetings with IB teachers and research into IB (for non-IB experienced teachers). The

field experience will occur throughout the three units that comprise the certificate.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain mandatory requirements accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

If field experience is undertaken out of Western Australia, the equivalent criminal record checks and registrations must be obtained.

### Employment Prospects:

International schools throughout the world including International Baccalaureate schools and those schools internationalising the curriculum.

### Professional Accreditation:

IB Certification is available

### Professional Recognition:

This course has been authorised by the International Baccalaureate (IB). On completion, students will be eligible to receive a Teaching and Learning Certificate from the International Baccalaureate - <http://www.ibo.org/professional-development/professional-certificates/ib-educator-certificates/>

### Main Research Areas:

International education; Internationalisation of Education; International schooling; International mindedness

### Further Study:

Students who successfully complete the Graduate Certificate may apply for admission to the Master of Education (Coursework) and on completion receive the IB Advanced Certificate of Teaching and Learning.

### Course Structure - 12 credit points

#### Core Units - 12 credit points

EDN519 International Education: Issues and Practices - 3 points  
MURDOCH: S2-internal, S2-external

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external

EDN517 Learning and Teaching in Educational Communities (IB and International Schools) - 6 points  
MURDOCH: S2-external

### GRADUATE CERTIFICATE IN EDUCATION (SECONDARY MATHEMATICS 7-10) (GRADCERTED(SECMATHS))

School of Education

Graduate Certificate in Education (Secondary Mathematics 7-10)  
(GradCertEd(SecMaths))

Course Codes: C1140

Duration: 1 year part-time

### Availability:

- Murdoch campus (internal) (all but one unit)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The recent move to elevate Year 7 into high school curriculum means that a lot of Primary teachers need an extra qualification to teach mathematics in high school. They need an understanding of the pedagogy/curriculum of Secondary Mathematics. This course fulfils that need.

The Graduate Certificate in Education (Secondary Mathematics 7 -

10) is designed for qualified teachers who are interested in upskilling in this area. Core units include pedagogy, curriculum, mathematics and statistics.

**Admission Requirements (Onshore):**

Recognised Bachelor of Education degree or higher, or equivalent training. Please note that the course does not constitute an initial teaching qualification.

English competence in accordance with Murdoch University graduate English language requirements.

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

MAS540 Mathematics for Teaching Secondary (7-10) - 3 points  
MURDOCH: S2-internal, S2-external

MAS541 Statistics for Teaching Secondary (7-10) - 3 points  
MURDOCH: S2-external

EDN542 Teaching Secondary Mathematics (7-10) - 3 points  
MURDOCH: S2-external

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

---

**GRADUATE CERTIFICATE IN EDUCATION  
(SECONDARY SCIENCE 7-10)  
(GRADCERTED(SECSCI))**

School of Education

Graduate Certificate in Education (Secondary Science 7-10)  
(GradCertEd(SecSci))

Course Codes: C1139

Duration: 1 year part-time

**Availability:**

- Murdoch campus (external)
- Some units only: Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The recent move to elevate Year 7 into high school curriculum means that a lot of Primary teachers need an extra qualification to teach science in high school. They need an understanding of the pedagogy/curriculum of Secondary Science. This course fulfils that need.

The Graduate Certificate in Education (Secondary Science 7 - 10) is designed for qualified teachers who are interested in upskilling in this area. Core units include pedagogy, curriculum, physics and chemistry.

**Admission Requirements (Onshore):**

Recognised Bachelor of Education degree or higher, or equivalent training. Please note that the course does not constitute an initial teaching qualification.

English competence in accordance with Murdoch University graduate English language requirements.

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

EDN549 Teaching Secondary Science (7-10) - 3 points  
MURDOCH: S2-external

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

PEN540 Physics for Teaching Secondary (7-10) - 3 points  
MURDOCH: S2-internal, S2-external

CHE540 Chemistry for Teaching Secondary (7-10) - 3 points

---

**GRADUATE DIPLOMA IN EDUCATION (EARLY  
CHILDHOOD EDUCATION AND CARE)  
(GRADDIPED(ECE&C))**

School of Education

Graduate Diploma in Education (Early Childhood Education and Care)  
(GradDipEd(ECE&C))

Course Codes: G1077

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (external) (Placements can be completed in all Australian states and territories)
- This course is not available to international students studying in Australia on a student visa; it is available to international students on other visas if visa conditions allow.

*Restriction: All graduate courses are subject to restriction.*

This course is designed for qualified primary school teachers who wish to make early childhood education and care one of their recognised specialisations. It specifically addresses the early childhood years birth - 5.

**Admission Requirements (Onshore):**

Undergraduate or graduate qualification in primary teaching.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Prior to placement in any school or child-care centre for Professional Experience, it is mandatory that students complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

**Employment Prospects:**

Early Childhood Education and Care

**Professional Accreditation:**

Australian Children's Education and Care Quality Authority (ACECQA)

<http://www.acecqa.gov.au/>

**Professional Recognition:**

On completion of the Graduate Diploma in Education (Early Childhood Education and Care), students have a nationally accepted qualification from a recognised university and are eligible for employment in Australian Early Childhood Education and Care sector (working with children aged birth to five years).

**Main Research Areas:**

Early Childhood Education and Care

**Other Information:**

Students who successfully complete the Graduate Diploma in Education (Early Childhood and Care) may apply for admission to the Master of Education (Coursework).

**Course Structure - 24 credit points**

**Core Units - 24 credit points**

EDN536 Professional Experience in Early Learning and Care Centres: Graduate - 6 points

MURDOCH: ST2-placement, ST4-placement

EDN500 Professional Experience in Early Childhood Education:  
Graduate - 6 points  
MURDOCH: ST2-placement, ST3-placement

EDN520 Advanced Principles and Practices in Early Childhood Education - 3 points  
MURDOCH: S1-external

EDN522 Integrated Early Childhood Curriculum for Educators - 3 points  
MURDOCH: S2-external

EDN537 Babies and Toddlers Effective Pedagogies and Toddlers Growing and Learning - 3 points  
MURDOCH: S1-external

EDN538 Designing Early Childhood Learning Environments - 3 points  
MURDOCH: S2-external

---

## GRADUATE DIPLOMA IN EDUCATION (SECONDARY) (GRADDIPED)

School of Education

Graduate Diploma in Education (GradDipEd) (Secondary)

Course Codes: G1024

Duration: 1 year full-time or part-time equivalent with a summer commencement. Students commencing mid-year will need 1.5 years minimum enrolment to complete requirements.

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)
- International students must commence in Semester 1 only.

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Education (Secondary) (GradDipEd) is a one-year full-time initial teaching qualification for graduates who hold a Bachelor's degree in some non-Education field relevant to teaching. It offers graduates a professional preparation for teaching in secondary schools or for a wide range of other careers with an education focus.

For Secondary Teacher Education students, the undergraduate degree must be relevant to one of the following learning areas in secondary schools: English, Drama, Humanities and Social Sciences, Science, Mathematics, Languages Other Than English (LOTE) or English as a Second Language (ESL).

### Admission Requirements (Onshore):

Recognised and appropriate Bachelor's degree or higher; the degree must be directly relevant to one or more of the learning areas offered at Murdoch.

Students demonstrating English competence via IELTS, or an equivalent English Language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score less than 7.0 in any of the four skills areas, and a score of no less than 8 in speaking and listening), on entry.

### Special Requirements:

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Students should note that both internal and external GradDipEd

students take EDN550 Transition to Teaching in the Summer option, which is an intensive 3-point version held on campus in the four-week period immediately prior to the commencement of Semester 1.

Students who enrolled in this course prior to 2014 should enrol in EDU293/EDU297 Professional Internship Units.

### Employment Prospects:

Murdoch graduates are employed in government and non-government schools and other education related occupations throughout the world. Our courses are accredited or recognised by the Teacher Registration Board of WA, which means they will be recognized by the equivalent agencies in other Australian States and Territories.

### Exemptions from Professional Experience and Other Units:

Students seeking exemptions must be able to provide documentary evidence in support of their application.

Students who have had at least two years of full-time recent relevant and satisfactory teaching experience in an Australian school context may seek partial exemption from some Professional Experience unit/s. While Murdoch recognises that some students may have prior and/or current teaching experience, it requires that a student's classroom competence be assessed before exemptions from Professional Experience can be given.

Students who have been employed as a teacher and have had at least one year of full-time equivalent recent, relevant and satisfactory teaching experience in an Australian school context may seek exemption from BED150 Understanding Teachers' Work.

Students cannot receive exemption from the Final Professional Experience (1 & 2): Secondary Teaching units.

If seeking uncredentialed credit students must submit a case in writing, with supporting documentary evidence to explain how the outcomes of units have already been achieved through prior experience. All applications for exemption and credit must be directed to the Accreditation Officer.

### Study Options:

Students taking the Graduate Diploma in Education (Secondary) are advised that the student contribution liability for these courses is commensurate with the load for these courses: viz 1.25 that of a normal 24-point load.

### External Study:

Not all required units in this course are offered completely externally. Some are offered as intensive sessions on campus or in Perth metropolitan schools.

a) GradDipEd students take EDN550 Transition to Teaching in the Summer option, which is an intensive 3-point version held on campus in the four-week period immediately prior to the commencement of Semester 1. This unit is a prerequisite for the curriculum and Professional Experience units beginning in Semester 1.

b) External students must undertake the first Professional Experience unit in a Perth metropolitan school under the guidance of a Murdoch University Moderator. Subject to satisfactory completion of this unit, students may negotiate with the School of Education Professional Experience Office to complete their subsequent Professional Experience in a school other than in metropolitan Perth. Note: EDN550 is not included as a first Professional Experience unit for this purpose.

### Course Structure - 30 credit points

Students must complete EDN550 Transition to Teaching in an intensive on-campus session held in the four-week period



immediately prior to the commencement of Semester 1. It must be completed successfully before commencing the Teaching Area or School Experience units, which begin in Semester 1.

Students should have completed all course requirements including their Teaching Area 1, Teaching Area 2 and EDN514 Professional Experience: Graduate Diploma Secondary prior to enrolling in EDN511 Final Professional Experience 1: Secondary Graduate Diploma and EDN510 Final Professional Experience 2: Secondary Graduate Diploma.

Students should complete EDN511 Final Professional Experience 1: Secondary Graduate Diploma and EDN510 Final Professional Experience 2: Secondary Graduate Diploma in their last semester of study.

### Core Units - 24 credit points

EDN298 LANTITE - Literacy - 0 points  
MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
MURDOCH: S1-external, S2-external

EDN550 Transition to Teaching - 3 points  
<span data-type="offering" data-unit="EDN550">MURDOCH: S2-internal, S2-external, SB1-internal (closed), ST1-internal</span>

EDN545 Learning and Assessment Processes - 3 points  
MURDOCH: S1-internal, S1-external

EDU621 Australian Indigenous Education - 3 points  
MURDOCH: S1-internal, S1-external

EDN514 Professional Experience: Graduate Diploma Secondary - 3 points  
MURDOCH: ST2-placement

EDN509 Inclusive Education: Contemporary Perspectives and Practices - 3 points  
MURDOCH: S2-internal, S2-external

EDN511 Final Professional Experience 1: Secondary Graduate Diploma - 3 points  
MURDOCH: ST2-placement, ST3-placement

EDN510 Final Professional Experience 2: Secondary Graduate Diploma - 6 points  
MURDOCH: ST2-placement, ST3-placement

### Specified Electives - 6 credit points

Students are usually required to complete two Teaching Areas to maximise flexibility in their future employment opportunities. Where students have in their initial degree sufficient relevant content units for two Teaching Areas, they choose two Teaching Area units from the list below. Where students do not have sufficient relevant content units for two Teaching Areas, they choose one Teaching Area unit and one Non-teaching Area unit from the lists below.

#### Teaching Areas - 3 or 6 credit points

EDN552 Teaching Drama in Secondary Schools - 3 points  
MURDOCH: S1-internal

EDN553 Teaching English in Secondary Schools - 3 points  
MURDOCH: S1-internal, S1-external

EDN554 Teaching Mathematics in Secondary Schools - 3 points  
MURDOCH: S1-internal, S1-external

EDN556 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

EDN557 Teaching Science in Secondary Schools - 3 points  
MURDOCH: S1-internal, S1-external

EDN558 Teaching Humanities and Social Sciences in Secondary Schools - 3 points  
MURDOCH: S1-internal, S1-external

### Non-teaching Area - 0 to 3 credit points

EDN618 Professional Development Portfolio - 3 points  
MURDOCH: S1-external

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

EDN671 Mentoring - 3 points  
MURDOCH: UA4-internal

EDN575 Opportunities with e-learning - 3 points  
<span data-type="offering" data-unit="EDN575">MURDOCH: W-internal (quota of 30 places)</span>

EDN588 Curriculum Development for Practitioners - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

## MASTER OF EDUCATION (COURSEWORK) (MED)

School of Education

Master of Education (MEd)

Course Codes: M1208

Duration: 1.5 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Murdoch University International Study Centre (Dubai, UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

Restriction: All graduate courses are subject to restriction.

This is a three semester/ trimester coursework degree designed to provide the education profession and the community in general with leaders capable of addressing critical issues in educational practice, policy and research. It is designed for: teachers, educational administrators, and other education professionals who seek to extend and deepen their expertise in Education; professionals carrying out educational duties in other relevant fields who seek professional development and renewal; and those planning to proceed to the Doctor of Education.

Students undertake a research-based project of 6 points and 30 points of coursework. This is a coursework-classified course and it can be completed in internal or external mode or a combination of modes at the Murdoch campus and completed internally at the Murdoch University International Study Centre (Dubai, U.A.E).

### Admission Requirements (Onshore):

Recognised Bachelor's degree or higher, or equivalent training, and a graduate-entry course in Education requiring at least a half year of full-time study, or part-time equivalent,

OR three-year Bachelor of Arts in Education.  
OR individual applications to be considered on a case-by-case basis. Applicants will need to demonstrate that experience gained in any studies and or professional experience has provided them with the knowledge and skills to undertake the Master of Education.

Applicants with a recognised Bachelor's degree or higher, or equivalent qualification, and a graduate-entry course in Education requiring at least a half year of full-time study, or part-time equivalent, may be eligible for advanced standing of up to 12 points.

Participants applying for credit for professional workplace learning or work completed through accredited professional development courses or continuing education should contact the Academic Chair for advice. Credit may also be granted for Masters-level units

completed in other courses at Murdoch or at other higher education institutions with a maximum advanced standing of 12 points.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Professional Recognition:**

This course does not constitute a teaching qualification and is not accredited by the Teacher Registration Board of Western Australia (TRBWA).

**Course Structure - 36 credit points**

A minimum of 24 credit points must be at 600 level.

**Core Units - 12 credit points**

**Project Unit - 6 credit points**

Students should normally complete the Master of Education Project during their final semester/trimester of enrolment.

EDU660 Education Project - 6 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

**Research Methods Unit - 6 credit points**

Students who already have a background in research methods should consult the Academic Chair.

EDU610 Introduction to Research for Educators - 6 points  
MURDOCH: S1-internal, S1-external, S2-external  
DUBAI-ISC: TJD-internal, TSD-internal

**Specified Electives - 24 credit points**

Select from the following units in consultation with the Academic Chair, with a maximum of 12 points at 500 level.

EDU645 Adult Learning in Education and Work - 3 points  
MURDOCH: S2-external

TLC501 Communication Skills for Postgraduate Study - 3 points  
MURDOCH: S1-internal, S2-internal

EDU658 Critical Policy Analysis and Teachers' Work - 3 points  
Not available this year

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external  
DUBAI-ISC: TJD-internal

EDU615 Learning and Teaching with ICT - 3 points  
MURDOCH: S2-external  
DUBAI-ISC: TSD-internal

EDU661 Student Engagement and Community Learning - 3 points  
<span data-type="offering" data-unit="EDU661">MURDOCH: S1-external (closed)</span>

EDN672 Critical Perspectives in Early Childhood Education - 3 points  
<span data-type="offering" data-unit="EDN672">MURDOCH: S2-external (closed pending cancellation of the offering)</span>

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

MBS687 Effective Leadership - 3 points  
Not available this year

EDN588 Curriculum Development for Practitioners - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
DUBAI-ISC: TJD-internal

EDN671 Mentoring - 3 points  
MURDOCH: UA4-internal

DUBAI-ISC: TMD-internal

EDN618 Professional Development Portfolio - 3 points  
MURDOCH: S1-external  
DUBAI-ISC: TMD-internal

EDN519 International Education: Issues and Practices - 3 points  
MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TMD-internal, TSD-internal

EDU604 Different Englishes and Interpretations of Language, Culture and Identity - 3 points  
MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TSD-internal

EDN575 Opportunities with e-learning - 3 points  
<span data-type="offering" data-unit="EDN575">MURDOCH: W-internal (quota of 30 places)</span>

EDN544 Tertiary and Adult Education Policy - 3 points  
MURDOCH: S2-internal, S2-external

EDN538 Designing Early Childhood Learning Environments - 3 points  
MURDOCH: S2-external

EDN537 Babies and Toddlers Effective Pedagogies and Toddlers Growing and Learning - 3 points  
MURDOCH: S1-external

EDN566 Pedagogies for Literacy and Numeracy in the Early Years - 3 points  
MURDOCH: S1-external

EDN522 Integrated Early Childhood Curriculum for Educators - 3 points  
MURDOCH: S2-external

EDN520 Advanced Principles and Practices in Early Childhood Education - 3 points  
MURDOCH: S1-external

EDU621 Australian Indigenous Education - 3 points  
MURDOCH: S1-internal, S1-external

EDN540 Facilitating Lifelong Learning - 6 points  
MURDOCH: S1-internal, S1-external

EDN556 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external  
DUBAI-ISC: TSD-internal

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external  
DUBAI-ISC: TJD-internal

EDN679 Great Thinkers in Education - 3 points

EDN669 Current Debates in Education - 3 points  
MURDOCH: S1-internal, S1-external

EDU511 Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills and Research - 3 points  
<span data-type="offering" data-unit="EDU511">MURDOCH: SB7-internal (closed as the offering has reached capacity)</span>

---

**MASTER OF EDUCATION (RESEARCH)  
(MED(RES))**

School of Education

*Master of Education (Research) (MEd(Res))*

Course Codes: M1233

Duration: 1.5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

This is an 18 month research degree designed to provide the education profession and the community in general with leaders capable of addressing critical issues in educational practice, policy and research. It is designed for: teachers, educational leaders and administrators, and other education professionals who seek to extend and deepen their expertise in Education; professionals carrying out educational duties in other relevant fields who seek professional development and renewal; and those planning to proceed to higher degrees. Students undertake a research dissertation (24 points) and 12 points of coursework. This is a research-classified course.

#### **Admission Requirements (Onshore):**

To be eligible for admission as a candidate for a Master of Education (Research) an applicant must have:

- \* a Bachelor Degree in Education (AQF level 7), or equivalent, and satisfy the Graduate Research Manager with evidence of scholarly or professional attainments relevant to the proposed research discipline; or
- \* a Bachelor Degree in a different discipline (AQF level 7) and have successfully completed a graduate course in Education, or equivalent, requiring at least one year of equivalent full-time study (AQF level 8), and satisfy the Graduate Research Manager with evidence of scholarly or professional attainments relevant to the proposed research discipline; or
- \* a Bachelor Degree in a different discipline and satisfy the Graduate Research Manager with evidence of significant scholarly or professional attainments (of at least two years full-time duration or equivalent) in Education equivalent to AQF level 8.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Special Requirements:**

Internet access is a requirement for all external students.

#### **Additional Academic Progress Requirements:**

In order to progress to the dissertation component of this degree students must achieve a minimum of 65 percent in Research Methodology units and pass the exam; or obtain the permission of the Academic Chair.

### **Course Structure - 36 credit points**

A student must normally enrol in a minimum of 6 points per semester of dissertation as a part-time student or 12 points per semester as a full-time student.

All students enrolling in this course will be required to complete a Graduate Program of Study (thesis plan) by the end of enrolment in the first 6 points of EDU700 Research in Education (Research Dissertation). This plan will be submitted through the School of Education's Research and Teaching Assistant to the Research and Development Board for approval.

#### **Core Units - 30 credit points**

EDU610 Introduction to Research for Educators - 6 points  
MURDOCH: S1-internal, S1-external, S2-external

EDU700 Research in Education (Research Dissertation) - 12 points  
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external  
Full-time students should enrol in this unit for 12 points for each of two semesters; part-time students for 6 points for each of four semesters, or up to the maximum candidature time available.

#### **Specified Electives - 6 credit points**

Select from the methodology units listed below and/or 600-level content units.

EDU701 Advanced Educational Research Seminar - 3 points

EDN781 Mixed Methods and Quantitative Research - 3 points  
MURDOCH: S2-internal, S2-external

EDU743 Advanced Qualitative Approaches to Research - 3 points  
MURDOCH: S1-internal, S1-external

### **Additional Academic Progress Requirements**

In order to progress to the dissertation component of this degree students must achieve a minimum of 65 percent in Research Methodology units and pass the exam; or obtain the permission of the Academic Chair.

---

## **MASTER OF TEACHING (PRIMARY) (MTEACHPRIM)**

School of Education

*Master of Teaching (Primary) (MTeachPrim)*

Course Codes: M1230

*Duration: 1.5 years full-time (if commencing in Semester 1) or part-time equivalent; students commencing mid-year (Semester 2) will need 2 years minimum enrolment (a total of 4 semesters) to complete requirements.*

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International students must commence in Semester 1 only.

*Restriction: All graduate courses are subject to restriction.*

The Master of Teaching (Primary) is 1.5 years full-time equivalent (or 2.5 years part-time) initial teaching qualification for graduates who hold a Bachelor's degree in a non-Education field relevant to primary teaching. It offers graduates a professional preparation for teaching in primary schools, or for a wide range of other careers with an education focus. To be eligible, applicants must have at least one year of full-time-equivalent undergraduate study relevant to one or more of the learning areas of the Primary curriculum (i.e. English, Mathematics, the Arts, Science, Humanities and Social Sciences, Health and Physical Education), and meet English language requirements.

Graduates of the Master of Teaching (Primary) are eligible to apply for registration to teach in Australian primary schools.

#### **Admission Requirements (Onshore):**

A recognised Bachelor's degree or higher, with at least one year of full-time equivalent study relevant to one or more of the learning areas of the Primary curriculum (i.e. English, Mathematics, the Arts, Science, Humanities and Social Sciences, Health and Physical Education). Entry to the course is competitive, and requires evidence of consistent and sustained high achievement (grades of credit and above) in a relevant undergraduate bachelor degree. The admission process may involve an interview.

Students demonstrating English competence via IELTS, or an equivalent English Language proficiency assessment, must have attained an overall IELTS (or equivalent) score of 7.5 (with no score less than 7.0 in any of the four skills areas, and a score of no less than 8 in speaking and listening), on entry.

#### **Special Requirements:**

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

All students must be able to undertake all professional experience units in one of Murdoch University's partnership schools in Western Australia.

Part-time study is available for Year One of the course. Students must be available to study full-time in Year Two.

**Employment Prospects:**

Murdoch graduates are employed in government and non-government schools and other education related occupations across Australia and throughout the world.

**Professional Accreditation:**

Teacher Registration Board of WA (TRBWA)  
<http://www.trb.wa.gov.au/>

**Professional Recognition:**

On successful completion of the course graduates will be able to seek registration from the Teacher Registration Board of Western Australia (TRBWA) and from other accrediting bodies across Australia.

## Course Structure - 48 credit points

### Core Units - 48 credit points

EDN298 LANTITE - Literacy - 0 points  
 MURDOCH: S1-external, S2-external

EDN299 LANTITE - Numeracy - 0 points  
 MURDOCH: S1-external, S2-external

EDN5501 Transition to Teaching - 3 points  
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDN561 Learners and Learning Environments - 3 points  
 MURDOCH: ST2-internal, ST2-external

EDN562 Numeracy and Learning - 3 points  
 MURDOCH: ST3-internal, ST3-external

EDN563 Literacy and Learning - 3 points  
 MURDOCH: S1-internal, S1-external

EDN564 Mathematics in the Primary Curriculum - 3 points  
 MURDOCH: ST4-internal, ST4-external

EDN565 English in the Primary Curriculum - 3 points  
 MURDOCH: ST3-internal, ST3-external

EDN567 Professional Experience: Strategies for Effective Teaching - 3 points  
 MURDOCH: ST4-internal, ST4-external

EDN568 Strategies for Effective Learning and Teaching - 3 points  
 MURDOCH: ST3-internal, ST3-external

EDN611 Professional Internship A: Differentiation within Diverse Contexts - 3 points  
 MURDOCH: S1L-internal, S1L-external

EDN612 Diversity and Inclusion - 3 points  
 MURDOCH: ST2-internal, ST2-external

EDN613 Integrated Curriculum in Primary Schools (HASS/HPE/Arts) - 3 points  
 MURDOCH: ST2-internal, ST2-external

EDN614 Science in the Primary Curriculum - 3 points  
 MURDOCH: ST1-internal, ST1-external

EDN615 Professional Internship B: Research in Practice - 6 points  
 MURDOCH: DE7-internal, DE7-external

EDN616 Research for Teaching - 3 points  
 MURDOCH: ST1-internal, ST1-external

EDN617 Research Project - 3 points  
 MURDOCH: DE7-internal, DE7-external

## DOCTOR OF EDUCATION (EDD)

School of Education

Doctor of Education (EdD)

Course Codes: D1017

Duration: 3 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Doctor of Education is an intensive course of study leading to the professional doctorate degree in Education. It consists of coursework and applied research leading to a dissertation.

The purpose of the degree is to provide advanced level study in Education at a high degree of specialisation through applied research in a selected area of practice. On entry to the EdD, each candidate will be assigned a supervisor who will assist in the development of an approved plan of study appropriate to the intended specialisation. For this course, on-campus meetings are available through negotiation.

**Admission Requirements (Onshore):**

Advanced academic study, research preparation and professional experience are required for admission to the course.

To be eligible for admission as a candidate for a Doctor of Education an applicant must have:

Bachelor Degree with at least a 2A Honours normally in the same discipline (AQF level 8); or  
 a Masters Degree normally in the same discipline (AQF level 9) and satisfy the Graduate Research Manager with evidence of substantive and significant scholarly or professional attainments; or  
 a Bachelor Degree normally in the same discipline (AQF level 7) and satisfy the Graduate Research Manager with evidence of substantive and significant scholarly or professional attainments including satisfactory research preparation the equivalent of AQF level 8 or 9. Students who have a Master of Education degree by coursework or research will be considered on a case-by-case basis for credit.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Employment Prospects:**

Graduates are qualified to obtain high-level professional positions in a range of locations in the broad Education industry.

**Additional Academic Progress Requirements:**

In order to progress to the dissertation component of this degree students must achieve a minimum of 65 percent across all units, a minimum of 65 percent in Research Methodology units and pass the exam or permission of the Academic Chair.

**Main Research Areas:**

Education systems (e.g., early childhood education, higher education), curriculum and pedagogy, and specialist studies of education (e.g., learning sciences, educational assessment and evaluation, educational technology and computing, education policy, Aboriginal education).

**Additional Admission Requirements:**

The entry requirements are the equivalent of a Bachelor of Education (or other relevant degree) with honours from a recognised university or equivalent and at least two years of relevant professional experience.

Students with a Master of Education by coursework degree may be asked to complete a small project as part of the first year of the Education Doctorate. At most students may be granted 12 points of credit; those who have a part-completed MEd will also be considered on a case-by-case basis and may be awarded credit on a

pro rata basis, provided these studies were undertaken within the last 10 years. Despite the amount of credit which may be awarded for previous studies, students may be requested to enrol in up to 12 points of coursework at the 600-level, which their supervisor or the student considers to be advantageous either for professional development or for the completion of the dissertation. To count as credit towards the EdD, a student must normally pass the units at Credit level or above.

Candidates who do not meet the admission requirements may be offered a place in a preliminary course designed to prepare them for admission to the doctoral course. The specific studies to be completed within a preliminary course would be determined in each case by the School's Research Committee.

### Course Structure - 72 credit points

#### Core Units - 60 credit points

##### Research Units - 12 credit points

EDU610 Introduction to Research for Educators - 6 points  
MURDOCH: S1-internal, S1-external, S2-external

EDN781 Mixed Methods and Quantitative Research - 3 points  
MURDOCH: S2-internal, S2-external

EDU743 Advanced Qualitative Approaches to Research - 3 points  
MURDOCH: S1-internal, S1-external

##### Research Dissertation - 48 credit points

EDU900 Research in Education (Research Dissertation) - 12 points

Full-time students should enrol in the thesis for 12 points for each of four semesters and part-time students for 6 points for each of eight semesters, or up to maximum candidature time available.

#### Specified Electives - 12 credit points

In consultation with their supervisor, students select up to four 600-level units so as to develop knowledge in the appropriate substantive area and to strengthen research methodology knowledge and skills in preparation for undertaking the thesis project.

Alternatively, students may take EDU701 Advanced Educational Research Seminar - 3 points [], up to 6 points by Independent Study at 600 level, or units at another institution.

#### Additional Academic Progress Requirements

In order to progress to the dissertation component of this degree students must achieve a minimum of 65 percent across all units, a minimum of 65 percent in Research Methodology units and pass the exam or permission of the Academic Chair.

---

## ENERGY STUDIES

#### See also:

Energy and the Environment

---

### GRADUATE CERTIFICATE IN ENERGY AND CARBON STUDIES (GRADCERTENCbSt)

School of Engineering and Information Technology

Graduate Certificate in Energy and Carbon Studies (GradCertEnCbSt)

Course Codes: C1137

Duration: 1 semester full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Certificate in Energy and Carbon Studies is designed to cater for graduates of any discipline who wish to acquire knowledge and skills in the areas of renewable and sustainable energy, as well as energy and carbon management.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, or satisfactory preparation for the course through previous study or professional experience. Some of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. The most common of these is the Physics prerequisite for units such as Energy in Society, Energy Management, Energy Systems and Energy Efficient Buildings. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

This course is available to external students anywhere in the world who wish to study off campus using on-line materials. Assistance is provided by tutors by telephone, email or the Internet. External students usually study part-time, completing the certificate over one year or more.

#### Employment Prospects:

Graduates can expect to gain employment in power generation companies, renewable energy manufacturing and installation companies, international aid organisations, government departments, energy efficiency, carbon accounting and environmental consultancies, university and private industry research organisations, and local government.

#### Professional Recognition:

Students who complete the unit PEN590 Energy Systems as part of this course are eligible for provisional accreditation by the Clean Energy Council for design of stand-alone photovoltaic systems.

#### Main Research Areas:

Renewable energy in developing countries, energy storage, solar cells, wind turbines, biomass, energy policy and economics, sustainable transport, micro-grids, remote area power supply systems, energy efficiency, climate change response.

#### Further Study:

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Energy and Carbon Studies.

### Course Structure - 12 credit points

#### Core Units - 9 credit points

Select from the following:

PEN592 Energy in Society - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

PEN594 Energy Management - 3 points  
MURDOCH: S1-internal, S1-external

PEN590 Energy Systems - 3 points  
MURDOCH: S2-internal, S2-external

PEN597 Climate Change Science and Policy - 3 points  
MURDOCH: S1-internal, S1-external

PEN591 Energy Policy - 3 points  
MURDOCH: S2-internal, S2-external

PEN593 Energy Economics - 3 points  
MURDOCH: S1-internal, S1-external

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment - 3

points

MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

PEN587 Renewable Energy and Sustainable Development - 3 points

MURDOCH: S2-internal, S2-external

PEN598 Carbon Management - 3 points

MURDOCH: S1-internal, S1-external, S2-external

---

**GRADUATE DIPLOMA IN ENERGY AND CARBON STUDIES (GRADDIPENCBST)**

School of Engineering and Information Technology

Graduate Diploma in Energy and Carbon Studies (GradDipEnCbSt)

Course Codes: G1079

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Diploma in Energy and Carbon Studies is intended to provide graduates of any discipline with a one-year course of study that covers the core areas of renewable and sustainable energy, as well as energy and carbon management.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, in a related area. Students with alternative, satisfactory preparation may also be admitted. Some of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. The most common of these is the Physics prerequisite for units such as Energy in Society, Energy Management, Energy Systems and Energy Efficient Buildings. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Using on-line facilities, students may complete this degree without needing to attend campus. Assistance is provided by tutors who correspond with students by telephone, email or the Internet.

**Employment Prospects:**

Graduates can expect to gain employment in power generation companies, renewable energy manufacturing and installation companies, international aid organisations, government departments, energy efficiency, carbon accounting and environmental consultancies, university and private industry research organisations and local government.

**Professional Recognition:**

Students who complete the unit PEN590 Energy Systems as part of this course are eligible for provisional accreditation by the Clean Energy Council for design of stand-alone photovoltaic systems.

**Main Research Areas:**

Renewable energy in developing countries, energy storage, solar cells, wind turbines, biomass, energy policy and economics, sustainable transport, micro-grids, remote area power supply systems, energy efficiency, climate change response.

**Further Study:**

Students who successfully complete the Graduate Diploma may apply for direct admission to the second year of the Master of Renewable and Sustainable Energy.

**Course Structure - 24 credit points****Core Units - 21 credit points**

PEN592 Energy in Society - 3 points

MURDOCH: S1-internal, S1-external, S2-external

PEN594 Energy Management - 3 points

MURDOCH: S1-internal, S1-external

PEN597 Climate Change Science and Policy - 3 points

MURDOCH: S1-internal, S1-external

PEN590 Energy Systems - 3 points

MURDOCH: S2-internal, S2-external

PEN591 Energy Policy - 3 points

MURDOCH: S2-internal, S2-external

PEN593 Energy Economics - 3 points

MURDOCH: S1-internal, S1-external

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment - 3 points

MURDOCH: S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

PEN598 Carbon Management - 3 points

MURDOCH: S1-internal, S1-external, S2-external

PEN587 Renewable Energy and Sustainable Development - 3 points

MURDOCH: S2-internal, S2-external

---

**MASTER OF RENEWABLE AND SUSTAINABLE ENERGY (MRENSUSEN)**

School of Engineering and Information Technology

Master of Renewable and Sustainable Energy (MRenSusEn)

Course Codes: M1268

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)

*Restriction: All graduate courses are subject to restriction.*

This 2 year course offers advanced training in the area of renewable and sustainable energy systems, sustainable energy policy, energy efficiency and carbon management. The first year is the Graduate Diploma in Energy and Carbon Studies or the Graduate Diploma in Energy and the Environment. In the second year students will complete a research dissertation, in the areas of renewable and sustainable energy and including the areas of climate change mitigation and adaptation.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, or professional experience in a related area. Students may be eligible for advanced standing in the Masters if they have achieved AQF Level 8 in a recognised, cognate discipline. Some of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

This course is available to external students anywhere in the world who wish to study off campus by using on-line facilities. Assistance is provided by tutors who correspond with students by telephone, email or the Internet.

#### **Employment Prospects:**

Graduates can expect to gain employment in power generation companies, renewable energy manufacturing and installation companies, international aid organisations, government departments, energy efficiency, carbon accounting and environmental consultancies, university and private industry research organisations and local government.

#### **Professional Recognition:**

Students who complete the unit PEN590 Energy Systems as part of this course are eligible for provisional accreditation by the Clean Energy Council for design of stand-alone photovoltaic systems.

#### **Main Research Areas:**

Renewable energy in developing countries, energy storage, solar cells, wind turbines, biomass, energy policy and economics, sustainable transport, micro-grids, remote area power supply systems, energy efficiency, climate change response.

### **Course Structure - 48 credit points**

This structure shows the case where the first year is the Graduate Diploma in Energy and Carbon Studies. Students may also choose the Graduate Diploma in Energy and the Environment as their first year of the Masters. For further information on the structure of the Graduate Diploma in Energy and the Environment, please refer to the Handbook entry for that course.

#### **Year 1 - 24 credit points**

##### **Core Units - 21 credit points**

PEN592 Energy in Society - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

PEN593 Energy Economics - 3 points  
MURDOCH: S1-internal, S1-external

PEN594 Energy Management - 3 points  
MURDOCH: S1-internal, S1-external

PEN597 Climate Change Science and Policy - 3 points  
MURDOCH: S1-internal, S1-external

PEN590 Energy Systems - 3 points  
MURDOCH: S2-internal, S2-external

PEN591 Energy Policy - 3 points  
MURDOCH: S2-internal, S2-external

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment - 3 points  
MURDOCH: S2-internal, S2-external

##### **Specified Electives - 3 credit points**

Select from the following:

PEN598 Carbon Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

PEN587 Renewable Energy and Sustainable Development - 3 points  
MURDOCH: S2-internal, S2-external

#### **Year 2 - 24 credit points**

##### **Core Units - 15 credit points**

PEN620 Case Studies of Renewable Energy Systems - 3 points  
MURDOCH: S2-internal, S2-external

PEN624 Renewable Energy Dissertation - 12 points  
MURDOCH: H-internal, H-external, Y-internal, Y-external

#### **Specified Electives - 9 credit points**

Select from the following:

##### **Renewable Energy Systems**

PEN622 Renewable Energy Resources - 3 points  
MURDOCH: S1-internal, S1-external

PEN621 Renewable Energy Devices - 3 points  
MURDOCH: S1-internal, S1-external

PEN623 Renewable Energy Systems Design - 3 points  
MURDOCH: S1-internal, S1-external

##### **Energy Efficiency**

PEN625 Energy Efficiency, System Analysis and Auditing - 3 points  
MURDOCH: S2-external

PEN626 Industrial and Commercial Energy Efficiency Technologies - 3 points  
Not available this year

PEN670 Energy Efficient Buildings - 3 points  
MURDOCH: S1-internal, S1-external

## **ENERGY AND THE ENVIRONMENT**

#### **See also:**

Energy Studies  
Environmental Science

### **GRADUATE DIPLOMA IN ENERGY AND THE ENVIRONMENT (GRADDIPENENV)**

School of Engineering and Information Technology

*Graduate Diploma in Energy and the Environment (GradDipEnEnv)*

Course Codes: G1062

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International Online (Australia) ['INT-ONLINE'] (external) (International offshore students only)

*Restriction: All graduate courses are subject to restriction.*

This diploma is directed to the interface between energy and carbon studies and environmental impact assessment and is intended to provide graduate training for Australian and international professionals working, or wishing to work, in the areas of climate change management or sustainable energy and environmental management. There are two specialisations in this Diploma:

- Climate Change Management
- Energy, Emissions and Environment

Recent significant changes in the global climate change policy environment have meant a shift to a broader range of adaptation and mitigation practices to counter climate change. This is driving a demand for professionals with climate change skills across the Asia Pacific region and in Australia and the Climate Change Management Specialisation is designed in collaboration with industry to address this demand.

The Energy, Emissions and Environment is specifically targeted to address the ongoing demand for the use of sustainable energy and the need for environmental management of such projects. This specialisation is interdisciplinary in nature, consisting of units drawn from the areas of energy studies and environmental impact assessment. Students can complete the course with a focus upon the policy and/or the scientific aspects of the environmental

management of the energy industry.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, or professional experience in a related area.

Some of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. The most common of these is the Physics prerequisite for units such as Energy in Society, Energy Management, Energy Systems and Energy Efficient Buildings. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

This course is available to external students anywhere in the world who wish to study off campus by using on-line facilities. Assistance is provided by tutors, using telephone, email, or the Internet. When studied in the external mode, some attendance may be required for some Environmental Science units.

**Employment Prospects:**

Graduates can expect to gain employment in power generation companies, renewable energy manufacturing and installation companies, international aid organisations, government departments, energy efficiency and environmental consultancies, university and private industry research organisations.

**Professional Recognition:**

Those students who take the Energy, Emissions and Environment specialisation and successfully complete the unit PEN590 Energy Systems will be eligible for provisional accreditation from the Clean Energy Council for design of stand-alone photovoltaic systems.

**Main Research Areas:**

Renewable energy, remote area power supply systems, components and monitoring, energy management, solar cells, wind turbines, energy policy and economics, environmental impact assessment, climate change and carbon management.

**Further Study:**

Students who successfully complete the Graduate Diploma may apply for direct admission to the one year Master of Environmental Science or direct admission to the second year of the Master of Renewable and Sustainable Energy.

---

**Climate Change Management Specialisation**

**Course structure - 24 credit points**

**Core Units - 15 credit points**

PEN502 Climate Change Impact Assessment - 3 points  
MURDOCH: S1-internal, S1-external

PEN503 Climate Change Adaptation and Strategy - 3 points  
MURDOCH: S2-internal, S2-external

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment - 3 points  
MURDOCH: S2-internal, S2-external

PEN597 Climate Change Science and Policy - 3 points  
MURDOCH: S1-internal, S1-external

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 9 credit points**

In choosing Specified Electives from the Energy Studies units or Environmental Science units, please note that only one (1) unit at 600-level can be chosen.

**Energy Studies Units - 3 credit points**

Select from the following:

PEN594 Energy Management - 3 points  
MURDOCH: S1-internal, S1-external

PEN592 Energy in Society - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

PEN598 Carbon Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

**Environmental Science Units - 6 credit points**

Select from the following:

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV536 Engaging with a Sustainable Future - 3 points  
MURDOCH: S2-internal, S2-external

ENV558 Environmental Monitoring - 3 points  
MURDOCH: S2-internal, S2-external

ENV617 Sustainability Assessment - 3 points  
MURDOCH: S1-internal, S1-external

ENV684 Modelling the Environment - 3 points  
Not available this year

---

**Energy, Emissions and Environment Specialisation**

**Course Structure - 24 credit points**

**Core Units - 3 credit points**

PEN592 Energy in Society - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

**Specified Electives - 21 credit points**

**Energy Studies Units - 9 or 12 credit points**

Select 9 or 12 credit points from the following:

PEN594 Energy Management - 3 points  
MURDOCH: S1-internal, S1-external

PEN587 Renewable Energy and Sustainable Development - 3 points  
MURDOCH: S2-internal, S2-external

PEN598 Carbon Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment - 3 points  
MURDOCH: S2-internal, S2-external

PEN590 Energy Systems - 3 points  
MURDOCH: S2-internal, S2-external

PEN591 Energy Policy - 3 points  
MURDOCH: S2-internal, S2-external

PEN597 Climate Change Science and Policy - 3 points  
MURDOCH: S1-internal, S1-external

PEN593 Energy Economics - 3 points  
MURDOCH: S1-internal, S1-external

**Environmental Science Units - 9 or 12 credit points**

Select 9 or 12 credit points from the following:

ENV557 Environmental Assessment and Management - 3 points  
MURDOCH: S1-internal, S1-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV558 Environmental Monitoring - 3 points  
MURDOCH: S2-internal, S2-external



ENV684 Modelling the Environment - 3 points  
Not available this year

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

ENV556 Principles of Environmental Impact Assessment - 3 points  
MURDOCH: S1-internal, S1-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

---

## ENGINEERING

### See also:

Chemistry  
Engineering Technology  
Environmental Science

---

## GRADUATE DIPLOMA IN ENGINEERING (GRADDIPENG)

School of Engineering and Information Technology

Graduate Diploma in Engineering (GradDipEng)

Course Codes: G1070

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Engineering is intended for practising professionals who wish to update their existing qualifications and/or enhance their skills in the areas of process control, instrumentation and industrial computer systems engineering.

The Graduate Diploma in Engineering offers study in instrumentation and control engineering.

### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) in a relevant area. Normally applicants will also possess an appropriate level of industrial experience. Applicants without the necessary qualifications and/or background will be required to study additional units as part of the course requirements. The preferred format to provide these details is by a Curriculum Vitae and a personal statement of no more than 300 words detailing why this course has been selected.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

Graduates can find employment in the following areas of manufacturing, medical, mining, processing energy supply, communications, electronics, computer systems and defence-related industries.

### Professional Recognition:

This course is designed to maintain and/or further the needs of Continuing Professional Education of Engineers in the areas of instrumentation and control and industrial computer systems engineering.

## Course Structure - 24 credit points

### Core Units - 24 credit points

ENG550 Design Project - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

ENG502 Computer Based Measurement and Control - 3 points  
MURDOCH: S2-internal

ENG508 Instrumentation and Control II - 3 points  
MURDOCH: S2-internal

ENG525 Instrumentation and Control I - 3 points  
MURDOCH: S1-internal

ENG563 Processes, Simulation and Instrumentation - 3 points  
MURDOCH: S1-internal

ENG501 PLC Applications - 3 points  
MURDOCH: S1-internal

ENG514 Industrial Signals and Systems - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

ENG564 Instrumentation and Communication - 3 points  
MURDOCH: S2-internal

---

## MASTER OF ENGINEERING (ME)

School of Engineering and Information Technology

Master of Engineering (ME)

Course Codes: M1193

Duration: 2 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Master of Engineering is intended for practising professionals who wish to update their existing qualifications and/or enhance their skills in the areas of process control, instrumentation, industrial computer systems and electrical power engineering.

### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) in a relevant area. Normally applicants will also possess an appropriate level of industrial experience. Applicants without the necessary qualifications and/or background will be required to study additional units as part of the course requirements. The preferred format to provide these details is by a Curriculum Vitae and a personal statement of no more than 300 words detailing why this course has been selected.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

Some units in this course are offered in a flexible delivery mode, allowing candidates to complete some of their studies at home or at their workplace.

### Employment Prospects:

Graduates can find employment in manufacturing, medical, mining, processing, energy supply, communications, electronics, computer-systems and defence-related industries.

### Professional Accreditation:

Provisional accreditation from Engineers Australia will be sought for this course in 2018.

### Professional Recognition:

This course can be used to meet the continuing professional education requirements of engineers in the areas of instrumentation and control, industrial computer systems and electrical power engineering.

## Course Structure - 48 credit points

### Core Units - 48 credit points

ENG550 Design Project - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

ENG670 Measurement and Uncertainty Analysis - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal

ENG691 Hazard, Risk and Project Management - 3 points  
<span data-type="offering" data-unit="ENG691">MURDOCH: S1-internal, S2-internal (closed), U-internal</span>

ENG615 Engineering Masters Project - 12 points  
MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal

ENG502 Computer Based Measurement and Control - 3 points  
MURDOCH: S2-internal

ENG508 Instrumentation and Control II - 3 points  
MURDOCH: S2-internal

ENG525 Instrumentation and Control I - 3 points  
MURDOCH: S1-internal

ENG563 Processes, Simulation and Instrumentation - 3 points  
MURDOCH: S1-internal

ENG668 Control System Investigation - 3 points  
MURDOCH: S1-internal

ENG501 PLC Applications - 3 points  
MURDOCH: S1-internal

ENG514 Industrial Signals and Systems - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

ENG564 Instrumentation and Communication - 3 points  
MURDOCH: S2-internal

ENG617 Industrial Computer Systems - 3 points  
MURDOCH: S1-internal, S2-internal

environmental management; it is structured with maximum flexibility to meet the needs of students.

**Admission Requirements (Onshore):**

A recognised Bachelor Degree (AQF Level 7) or higher or equivalent training. If the first degree is not related to this area of study then at least two years of relevant work/life experience is required. Most of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

When studied in the external mode, some attendance is required. Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

**Employment Prospects:**

This course will be relevant to consultants wishing to practice in this field, and to people employed by private and public organisations that are active in environmental management.

**Further Study:**

Students who successfully complete the Graduate Certificate in Environmental Assessment and Management may apply for admission to the Graduate Certificate in Environmental Science or Master of Environmental Science.

**Course Structure - 12 credit points**

University regulations require completion of units at 500-level or above.

**Core Units - 6 credit points**

ENV556 Principles of Environmental Impact Assessment - 3 points  
MURDOCH: S1-internal, S1-external

ENV557 Environmental Assessment and Management - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 6 credit points**

Select from the following:

ENV554 Land and Water Management - 3 points  
MURDOCH: S1-internal, S1-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV539 Marine Science Topics - 3 points  
Not available this year

ENV527 Environmental Science Topics - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

ENV526 Advanced Ecology - 3 points  
MURDOCH: S2-external

6

---

## ENVIRONMENTAL ASSESSMENT AND MANAGEMENT

**See also:**

Environmental Science

---

### GRADUATE CERTIFICATE IN ENVIRONMENTAL ASSESSMENT AND MANAGEMENT (GRADCERTENVASSTMAN)

School of Veterinary and Life Sciences

*Graduate Certificate in Environmental Assessment and Management (GradCertEnvAsstMan)*

Course Codes: C1118

Duration: 1 semester full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International students must commence in Semester 1 only.

*Restriction: All graduate courses are subject to restriction.*

Environmental professionals are required to have a clear understanding of the various procedures and activities involved in environmental assessment and management. This course is designed to provide Australian and overseas environmental professionals with an understanding of the policies, procedures and techniques of environmental management through practically-oriented study. The course will be relevant to consultants and to people employed by private and public organisations that are active in environmental practice. The course aims to provide a multidisciplinary education to further develop knowledge and understanding of selected principles and techniques employed in

---

## ENVIRONMENTAL MANAGEMENT

**See also:**

Environmental Science

---

### GRADUATE CERTIFICATE IN PROTECTED AREA ADMINISTRATION (GRADCERTPAADMIN)

School of Veterinary and Life Sciences

*Graduate Certificate in Protected Area Administration (GradCertPAAdmin)*

Course Codes: C1129

Duration: 1 semester full-time or part-time equivalent; students commencing mid-year will need two semesters minimum enrolment to complete requirements

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This certificate course is designed to provide overseas and Australian middle level to senior protected area managers with up-to-date skills and knowledge in effectively administering protected areas. State-of-the-art information on managing human resources and complex organisations will be provided through practically oriented study. Students will also be able to build their expertise in monitoring, strategic assessment and system planning. This course is relevant to managers employed by public and private organisations managing lands and waters for biodiversity and other values.

**Admission Requirements (Onshore):**

Cognate Bachelor degree or equivalent workplace experience

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Some units may be delivered in intensive mode. Internet access is required for all students. Most of the units are available in Semester 1 so full-time students will need to undertake their study in this semester.

**Employment Prospects:**

Employment by government park management agencies (e.g. Commonwealth Department of Environment, WA Department of Parks and Wildlife, Parks Victoria), environmental non-government organisations (e.g. Pew Foundation), private reserve managers (e.g. Bush Heritage Australia), Indigenous Protected Areas.

**Professional Recognition:**

The professional outcome is a Certificate in Protected Area Administration addressing key competency requirements identified internationally (by the IUCN WCPA) for protected area managers.

**Main Research Areas:**

Environmental science and management, ecology, business and management.

**Course Structure - 12 credit points**

**Core Units - 9 credit points**

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

ENV558 Environmental Monitoring - 3 points  
MURDOCH: S2-internal, S2-external

OR

ENV557 Environmental Assessment and Management - 3 points  
MURDOCH: S1-internal, S1-external

**Specified Electives - 3 credit points**

Select from the following:

ENV536 Engaging with a Sustainable Future - 3 points  
MURDOCH: S2-internal, S2-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV527 Environmental Science Topics - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

ENV539 Marine Science Topics - 3 points  
Not available this year

MBS536 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal

Plus specific units offered through University of Tasmania, James Cook University and Charles Darwin University.

---

**MASTER OF PROTECTED AREA MANAGEMENT (MPAMAN)**

School of Veterinary and Life Sciences

Master of Protected Area Management (MPAMan)

Course Codes: M1231

Duration: 2 semesters full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This Masters course is designed to provide overseas and Australian middle level to senior protected area managers with up-to-date skills and knowledge in effectively managing and developing policy for protected areas. Globally relevant information on planning, managing, administering and protecting these areas will be provided through investigating the latest theories and practical case studies. Students will build their expertise in landscape-scale planning and management, environmental monitoring, and collaborative governance and management, especially with Indigenous communities.

**Admission Requirements (Onshore):**

Completion of the Graduate Certificate in Protected Area Administration, Graduate Certificate in Environmental Assessment and Management, Graduate Certificate or Diploma in Environmental Science, or an equivalent AQF Level 8 qualification, including honours, in the biological, ecological, marine or environmental sciences. Students with a Bachelor's degree in the biological, ecological, marine, environmental or animal sciences with at least three years of relevant work experience are also eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Special Requirements:**

Some units may be delivered in intensive mode. Internet access is required for all students. International students should consult with the Academic Chair to confirm sequence of units.

**Employment Prospects:**

Employment in senior positions by government park management agencies (e.g. Commonwealth Department of Environment, WA Department of Parks and Wildlife, Parks Victoria), environmental non-government organisations (e.g. Pew Foundation), private reserve managers (e.g. Bush Heritage Australia), Indigenous Protected Areas.

**Professional Recognition:**

The professional outcome is addressing key competency requirements identified internationally (by the IUCN WCPA) for protected area managers.

**Main Research Areas:**

Environmental science and management, ecology, business and management.

## Course Structure - 24 credit points

### Core Units - 21 credit points

ENV637 Advanced Protected Area Management and Planning - 3 points  
MURDOCH: S1-internal, S1-external

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV690 Environmental Science Masters Project - 12 points  
MURDOCH: H-internal, H-external, Y-internal, Y-external

### Specified Electives - 3 credit points

Select from the following:

ENV617 Sustainability Assessment - 3 points  
MURDOCH: S1-internal, S1-external

MBS687 Effective Leadership - 3 points  
Not available this year

ENV684 Modelling the Environment - 3 points  
Not available this year

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points  
MURDOCH: S2-internal, S2-external

Plus specific units offered through University of Tasmania, James Cook University and Charles Darwin University.

### Special Requirements:

This course is available externally, although some attendance is required in individual units. Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

### Employment Prospects:

This course is relevant to those who wish to practise in environmental science in the public and private sectors, in Australia and overseas.

### Further Study:

Students who successfully complete the Graduate Certificate in Environmental Science may apply for admission to the Master of Environmental Science.

### Exemption from Coursework Regulations:

In this course, where appropriate, undergraduate units (between 100- and 400-level) have been included to meet the learning outcomes for the entire course: postgraduate students can expect to be part of a learning community with undergraduate students in these units.

## Course Structure - 12 credit points

### Core Units - 6 credit points

ENV558 Environmental Monitoring - 3 points  
MURDOCH: S2-internal, S2-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

### Specified Electives - 6 credit points

Select from the following:

ENV526 Advanced Ecology - 3 points  
MURDOCH: S2-external

ENV527 Environmental Science Topics - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

ENV536 Engaging with a Sustainable Future - 3 points  
MURDOCH: S2-internal, S2-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV539 Marine Science Topics - 3 points  
Not available this year

## ENVIRONMENTAL SCIENCE

### See also:

Environmental Management  
Marine Science

### GRADUATE CERTIFICATE IN ENVIRONMENTAL SCIENCE (GRADCERTENVSC)

School of Veterinary and Life Sciences

Graduate Certificate in Environmental Science (GradCertEnvSc)

Course Codes: C1127

Duration: 1 semester full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external) (some attendance is required in individual units)
- International students must commence in Semester 2 only.

Restriction: All graduate courses are subject to restriction.

The course is designed to provide Australian and international environmental professionals with an introduction to advanced topics and skills in environmental science. The flexibility and interdisciplinary approach of the program gives students the opportunity to further develop problem solving skills. Completion of the Graduate Certificate in Environmental Science provides the opportunity for further study at progressive graduate levels in Environmental Science.

### Admission Requirements (Onshore):

A recognised Bachelor Degree (AQF Level 7) in Environmental Science, Marine Science, Biological Science, Conservation Science or a closely related field of education.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

## GRADUATE DIPLOMA IN ENVIRONMENTAL SCIENCE (GRADDIPENV)

School of Veterinary and Life Sciences

Graduate Diploma in Environmental Science (GradDipEnv)

Course Codes: G1053

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (all but one unit)

Restriction: All graduate courses are subject to restriction.

The course provides graduates from wide cognate disciplines training and a graduate qualification in environmental science. It offers a broad range of subjects such as ecology, environmental policy and law, environmental monitoring, land and water management and sustainability. Completion of this course provides the opportunity for further study at progressive graduate levels in Environmental Science.

**Admission Requirements (Onshore):**

A recognised Bachelor degree (AQF Level 7) or higher or equivalent training. If the first degree is not related to this area of study then at least two years of relevant work/life experience is required. Most of the units taken assume some prior knowledge, details of which are given in the description of each unit in the Handbook. Some students may therefore need to complete additional prerequisite units.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

When taken in the external mode, some attendance may be required depending on the units selected.

**Employment Prospects:**

This course is relevant to those who wish to practise in environmental science in the public and private sectors in Australia and overseas.

**Further Study:**

Students who successfully complete this Graduate Diploma may apply for admission to the Master of Environmental Science.

**Exemption from Coursework Regulations:**

In this course, where appropriate, undergraduate units (between 100- and 400-level) have been included to meet the learning outcomes for the entire course: postgraduate students can expect to be part of a learning community with undergraduate students in these units.

**Course Structure - 24 credit points****Core Units - 24 credit points**

ENV557 Environmental Assessment and Management - 3 points  
MURDOCH: S1-internal, S1-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

ENV554 Land and Water Management - 3 points  
MURDOCH: S1-internal, S1-external

ENV536 Engaging with a Sustainable Future - 3 points  
MURDOCH: S2-internal, S2-external

ENV558 Environmental Monitoring - 3 points  
MURDOCH: S2-internal, S2-external

ENV303 GIS for Environmental Management and Planning - 3 points  
MURDOCH: S2-internal, S2-external

ENV527 Environmental Science Topics - 3 points  
MURDOCH: S1-internal, S1-external, S2-external

ENV526 Advanced Ecology - 3 points  
MURDOCH: S2-external

Students who have completed units with similar outcomes as the Core Units listed will need to complete other units as approved by the Academic Chair.

Recommended:

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

**MASTER OF ENVIRONMENTAL SCIENCE (MENVSC)**

School of Veterinary and Life Sciences

Master of Environmental Science (MEnvSc)

Course Codes: M1210

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course provides advanced training in the application of environmental science to problem solving. The course is open to people working as environmental professionals, or seeking to do so, who want to undertake advanced studies in environmental science to broaden their environmental expertise or specialise further in a selected area.

This course facilitates improved awareness of environmental issues from scientific, technical, social and political perspectives, and provides more specific knowledge in areas of particular interest to individual students. This course aims to supply leaders to the environmental professions with the interdisciplinary scientific and policy skills required to deal with today's complex environmental problems. Graduates from the course are well equipped to contribute to continuing improvement in environmental management practices.

**Admission Requirements (Onshore):**

Completion of the Graduate Certificate in Environmental Assessment and Management or Graduate Certificate in Environmental Science or Graduate Diploma in Environmental Science (AQF Level 8), or an equivalent graduate course in a closely related field of education; or equivalent training.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Some external units may require on-campus attendance for a short period.

Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

**Employment Prospects:**

Past students have come from and/or found employment in the public and private sectors, including the consulting industry, in Australia and overseas.

**Course Structure - 24 credit points**

University regulations require completion of 600-level units or above for a 24-point Masters by Coursework degree.

**Core Units - 18 credit points**

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENV690 Environmental Science Masters Project - 12 points  
MURDOCH: H-internal, H-external, Y-internal, Y-external

**Specified Electives - 6 credit points**

Select from the following:

ENV617 Sustainability Assessment - 3 points  
MURDOCH: S1-internal, S1-external

ENV684 Modelling the Environment - 3 points

Not available this year

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points

MURDOCH: S2-internal, S2-external

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH:  
SUM-internal (quota of 10 places), SUM-external, U-internal (quota  
of 10 places), U-external</span>

Other appropriate 600-level units may be substituted with the permission of the Academic Chair.

## EXERCISE PHYSIOLOGY

### See also:

Chiropractic

Sports Science

## GRADUATE DIPLOMA IN CLINICAL EXERCISE PHYSIOLOGY (GRADDIPCLINEXPHYS)

School of Psychology and Exercise Science

Graduate Diploma in Clinical Exercise Physiology (GradDipClinExPhys)

Course Codes: G1073

Duration: 3 trimesters full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

Exercise Physiology is a mainstream allied health profession concerned with the delivery of exercise, lifestyle, and behavioural modification programs for the prevention and management of chronic disease and injury. Murdoch graduates of the Exercise Physiology course will possess the skills and ability to provide physical activity and behavioural programs for clients with conditions as diverse as cardiovascular disease, diabetes, osteoporosis, depression, cancer, arthritis, respiratory disease and many others.

### Admission Requirements (Onshore):

Entry into this course is restricted to those completing the requirements of an accredited (through ESSA: Exercise and Sports Science Australia) Exercise Science degree with a minimum GPA of 2.0 (or institution equivalent).

Specific to Murdoch University (internal) students: Entry into this course is restricted to those maintaining a minimum GPA of 2.0 and completing all units within the BSc (Movement Science) and BSc (Sport and Health Science).

This course does have a quota, therefore the minimum GPA may not guarantee entry into the course and the indicative GPA may vary from year to year.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

Health Setting: Hospital, Medical clinics

Private Employment: Self-employed practitioner

### Professional Accreditation:

Exercise and Sports Science Australia (ESSA): Exercise Physiology.

### Professional Recognition:

Accredited Exercise Physiologist.

### Main Research Areas:

Exercise Physiology, Rehabilitation: Metabolic, Cardiovascular, Musculoskeletal, Neuromuscular

## Course Structure - 24 credit points

### Core Units - 24 credit points

EXS590 Research Methods for Exercise Science - 3 points  
MURDOCH: T3-internal

EXS503 Neuromuscular Rehabilitation - 3 points  
MURDOCH: T2-internal

EXS502 Metabolic Rehabilitation - 3 points  
MURDOCH: T2-internal

EXS501 Cardiopulmonary Rehabilitation - 3 points  
MURDOCH: T1-internal

EXS504 Advanced Topics in Exercise Physiology - 3 points  
MURDOCH: T3-internal

EXS509 Exercise Physiology Practicum - 6 points  
<span data-type="offering" data-unit="EXS509">MURDOCH:  
Y1-placement (quota of 40 places)</span>

EXS505 Clinical Research in Exercise Physiology - 3 points  
MURDOCH: Y1-internal

## EXTRACTIVE METALLURGY

### See also:

Mineral Science

## GRADUATE DIPLOMA IN EXTRACTIVE METALLURGY (GRADDIPEXTMET)

School of Engineering and Information Technology

Graduate Diploma in Extractive Metallurgy (GradDipExtMet)

Course Codes: G1034

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma provides specialised training in the core disciplines of extractive metallurgy - mineral processing, process mineralogy, hydrometallurgy and pyrometallurgy. It has been devised for the benefit of graduates from related fields of study currently working in the minerals industry who now find they need specialised knowledge in extractive metallurgy, and others who wish to prepare for a higher degree in extractive metallurgy (i.e. Masters or PhD).

### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, in a relevant area. Students with alternative satisfactory preparation may also be admitted. Students who do not have equivalent knowledge and background in chemistry, thermodynamics, physics and mathematics will be required to undertake additional preparatory units prior to admission.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

This course is best suited for part-time students or overseas students who wish to study for a higher degree in extractive metallurgy. Attendance at on-campus laboratory sessions is a requirement in the practicum unit.

### Employment Prospects:

Many students taking this qualification will already be employed in the minerals industry as engineers or chemists. Other graduates can expect to find employment in mineral processing and metal

extraction plants throughout Australia and overseas.

**Professional Accreditation:**

Recognised by the Australasian Institute of Mining and Metallurgy.

**Professional Recognition:**

Diplomates are eligible for professional membership of the Australasian Institute of Mining and Metallurgy.

**Course Structure - 24 credit points**

**Core Units - 24 credit points**

ENG193 Introduction to the Minerals Industry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ENG524 Process Unit Operations - 3 points  
MURDOCH: S1-internal, S1-external

ENG565 Mineralogy for Metallurgists - 3 points  
MURDOCH: S2-internal, S2-external

ENG566 Advanced Mineral Processing - 3 points  
MURDOCH: S1-internal, S1-external

ENG527 Extractive Metallurgy I - 3 points  
MURDOCH: S1-internal, S1-external

ENG528 Extractive Metallurgy II - 3 points  
MURDOCH: S2-internal, S2-external

ENG562 Practical Metallurgical Processing - 6 points  
MURDOCH: H-external, Y-external

Or other units with permission of the Academic Chair.

---

## FOOD SECURITY

---

### MASTER OF FOOD SECURITY (MFOODSEC)

School of Veterinary and Life Sciences

Master of Food Security (MFoodSec)

Course Codes: M1237

Duration: 2 semesters full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course provides a sound understanding of food security, including international frameworks in which food trade operates, and the drivers behind food security. Using case studies, students will explore biosecurity and food policies that underpin food security and trade in a global context. Students will investigate the concept of producing, protecting and providing food, to ensure sustainable food production for present and future generations. The dissertation provides an opportunity for in-depth analysis of an issue of relevance to food security.

**Admission Requirements (Onshore):**

Completion of the Graduate Certificate or Diploma in Plant Biosecurity or an equivalent AQF Level 8 qualification, including honours, in the plant, ecological, environmental or animal sciences. Students with a Bachelor's degree in the plant, ecological, environmental or animal sciences with at least three years of relevant work experience are also eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Special Requirements:**

Some units may be delivered in intensive mode. Internet access is

required for all students.

**Employment Prospects:**

Graduates will be able to pursue careers in fields such as agriculture and international development, acting in policy, technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State and Federal Agriculture or Development Agencies, and private industry, or their international counterparts.

**Professional Recognition:**

Graduates will be eligible to apply for membership to societies such as the Australian Institute of Agricultural Science and the Australian Society of Horticultural Sciences.

**Main Research Areas:**

Food production, protection and provision; biosecurity; agribusiness; sustainability; supply chain analysis.

**Course Structure - 24 credit points**

**Core Units - 21 credit points**

BIO689 Food Security Masters Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

BIO639 Global Biosecurity - 3 points  
MURDOCH: S1-internal, S1-external

BIO681 Challenges in Food Security - 3 points  
MURDOCH: S2-internal, S2-external

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Specified Electives - 3 credit points**

Select from the following:

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

---

## FORENSIC SCIENCE

---

### GRADUATE CERTIFICATE IN FORENSIC SCIENCE (PROFESSIONAL PRACTICE) (GRADCERTFORSC(PROFESSIONALPRACTICE))

School of Veterinary and Life Sciences

Graduate Certificate in Forensic Science (Professional Practice)  
(GradCertForSc(ProfessionalPractice))

Course Codes: C1131

Duration: 1 semester full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course provides graduates in life sciences with professional training in forensic science leading to the acquisition of skills relevant to criminal investigation. Crime scene reconstruction is emphasised as is the collection, processing and interpretation of biological and physical evidence. Instruction in anatomy, pathology and death-investigation is provided with a focus on injury-recognition. Specimen preparation, sources of contamination, quality assurance, statistical interpretation and the admissibility of evidence are discussed as a prelude to the preparation and delivery of courtroom testimony.

**Admission Requirements (Onshore):**

A recognised Bachelor Degree (AQF Level 7) in Forensic Science, Biomedical Science, Molecular Biology, Biotechnology or a closely related field of education; or equivalent training.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This course is designed to generate graduates with the skills needed to work with the police and other investigative authorities as Forensic Investigators or Crime Scene Officers.

**Main Research Areas:**

Forensic DNA Analysis; Fingerprinting Technologies; Toxicology and Metabolomics; Bloodstain Pattern Analysis; Wildlife Forensics.

**Course Structure - 12 credit points****Core Units - 12 credit points**

BIO596 Crime Scene Investigation I - 3 points  
MURDOCH: S2-internal

BIO597 Homicide and Death Investigation - 3 points  
MURDOCH: S2-internal

BIO598 Fingerprinting and Impression Evidence - 3 points  
MURDOCH: S2-internal

BIO599 Human DNA Profiling - 3 points  
MURDOCH: S2-internal

---

**MASTER OF FORENSIC SCIENCE  
(PROFESSIONAL PRACTICE)  
(MFORSC(PROFESSIONALPRACTICE))**

School of Veterinary and Life Sciences

Master of Forensic Science (Professional Practice)  
(MForSc(ProfessionalPractice))

Course Codes: M1255

Duration: 1.5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course provides graduates in life sciences or equivalent, with professional training in forensic and crime scene investigation to international standards. Students develop the theoretical and practical skills relevant to the forensic investigation of volume and serious crimes. Instruction in the core forensic disciplines and key forensic specialisms (anthropology, disaster victim identification (DVI) entomology, palynology and pathology) and associated legal requirements and Court testimony are provided. Reconstruction of the different crime scene types and processing by the students is emphasised, as is the collection, processing and interpretation of biological and physical evidence. In addition, students, a forensic/ crime scene investigator undertake 'capstone' field trips to a dedicated facility, to process a mock murder scene and a body recovery exercise. The mock scene processing: interpretation, recording/ documentation, evidence collection sources of contamination, quality assurance procedures and the admissibility of evidence are undertaken as a prelude to your delivery of an expert witness report and courtroom testimony.

**Admission Requirements (Onshore):**

A recognised Bachelor Degree (AQF Level 7) in Forensic Science, Biomedical Science, Molecular Biology, Biotechnology or a closely related field of education; or equivalent training.

Equivalent of an Academic IELTS overall score of 6.0 with no band

less than 6.0.

**Employment Prospects:**

This course is designed to generate graduates with advanced skills needed to work with the police and other investigative authorities as Forensic Investigators or Crime Scene Officers.

**Main Research Areas:**

Forensic DNA Analysis; Fingerprinting and Impression Evidence Technologies; Toxicology, Drugs of Abuse and Metabolomics; Bloodstain Pattern Analysis; Forensic contamination surveys and prevention procedures.

**Nested Awards:**

Students may opt out of the Master of Forensic Science (Professional Practice) and exit with the Graduate Certificate of Forensic Science (Professional Practice) subject to satisfying the course requirements.

**Course Structure - 36 credit points****Core Units - 24 credit points**

BIO596 Crime Scene Investigation I - 3 points  
MURDOCH: S2-internal

BIO597 Homicide and Death Investigation - 3 points  
MURDOCH: S2-internal

BIO598 Fingerprinting and Impression Evidence - 3 points  
MURDOCH: S2-internal

BIO599 Human DNA Profiling - 3 points  
MURDOCH: S2-internal

BIO685 Crime Scene Investigation II - 3 points  
MURDOCH: S1-internal

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SOU681 Digital Forensics - 3 points  
MURDOCH: S1-internal

BIO692 Bloodstain Pattern Analysis - 3 points  
MURDOCH: S1-internal

**Specified Electives - 12 credit points**

BIO612 Forensic Science (Professional Practice) Masters Project - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

OR

BIO609 Forensic Science (Professional Practice) Masters Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

---

**GAMES AND APPS PRODUCTION**


---

**GRADUATE DIPLOMA IN GAMES AND APPS PRODUCTION (GRADDIPGAMESAPPSPROD)**

School of Arts

Graduate Diploma in Games and Apps Production  
(GradDipGamesAppsProd)

Course Codes: G1074

Duration: 2 semesters full-time (if commencing in Semester 1) or part-time equivalent subject to unit availability. Students commencing mid-year (Semester 2) will need 1.5 years minimum enrolment (a total of 3 semesters) to complete requirements.



**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The course provides graduates from wide cognate disciplines with knowledge, skills, and experience in developing Games and Apps with a focus on commercial viability and industry best practices, as well as complementary development of business and marketing skills. Completion of this course provides the opportunity for disciplined Games and Apps development within real world contexts, both for commercial and non-commercial environments.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) or higher or equivalent training in a relevant field. If the first degree is not related to this area of study then satisfactory preparation for the course through relevant professional experience is required.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This course is relevant to those who wish to create interactive multimedia applications for desktop, mobile, and console platforms including games for entertainment or education, data visualisation, and software development for process management, training, or teaching.

**Main Research Areas:**

Games Development, Human-Computer Interaction, Product Design

**Course Structure - 24 credit points****Core Units - 15 credit points**

MCM502 Web Strategy - 3 points  
MURDOCH: S1-internal

MCM506 Strategic Communication - 3 points  
MURDOCH: S1-internal

GAD501 Games and Apps Design and Production - 3 points  
MURDOCH: S1-internal

GAD502 Games and Apps Production Project - 6 points  
MURDOCH: S2-internal

**Specified Electives - 9 credit points**

Select from the following:

ICT508 Information Technology Project Management - 3 points  
MURDOCH: S2-internal

ICT521 IT Professional Practice - 3 points  
MURDOCH: S1-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points  
MURDOCH: S2-internal, S2-external

ICT502 Applied Information Security Management - 3 points  
MURDOCH: S2-internal, S2-external

WEB564 Web Analytics - 3 points  
MURDOCH: S2-internal

MCM605 Public Relations, Communication and Culture - 3 points  
MURDOCH: S2-internal

**HEALTH****GRADUATE CERTIFICATE IN HEALTH CARE MANAGEMENT (GRADCERTHCM)**

School of Health Professions

*Graduate Certificate in Health Care Management (GradCertHCM)*

Course Codes: C1116

Duration: 1 semester full-time or part-time equivalent

**Availability:**

- Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

This Certificate aims to cultivate excellence in quality, leadership and management in health professionals working in Quality, Safety, Risk and Middle Management roles in acute, community, mental health, primary and aged care public and private sectors. This course will provide fundamental skills for a range of leadership and management positions within the health service industry.

**Admission Requirements (Onshore):**

Completion of a Bachelor degree (AQF Level 7) or equivalent in a health related discipline. Preparation for the course through previous study or professional experiences will be considered on a case-by-case basis.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Access to adequate library resources and to the Internet is essential for external students.

**Employment Prospects:**

Enhanced quality, safety and management skills acquired will position students to meet consumer expectations of the healthcare system and to fulfil industry demand for increased middle management skills in order to enhance the quality of services. Positions such as Accreditation Coordinator, Quality Manager, Quality and Risk Manager are essential within health services, particularly the private and aged care sectors, for their accreditation. Successful completion of this course will put graduates in a favourable position to fill such roles.

**Main Research Areas:**

Health, quality and management

**Course Structure - 12 credit points****Core Units - 12 credit points**

SHP501 Safety and Quality in Health Care - 3 points  
MURDOCH: S1-external, S2-external

SHP511 Leadership in Health Care - 3 points  
MURDOCH: S1-external, S2-external

SHP510 Bioethics and Law for Health Care Leadership - 3 points  
MURDOCH: S1-external, S2-external

SHP541 Health Policy in an Australian Context - 3 points  
MURDOCH: S1-external, S2-external

**MASTER OF HEALTH CARE MANAGEMENT (MHCM)**

School of Health Professions

*Master of Health Care Management (MHCM)*

Course Codes: M1217

Duration: 1.5 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (external)
- Some units only: Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

This course aims to cultivate excellence in quality, leadership and management in health professionals working in Quality, Safety, Risk and Middle Management roles in acute, community, mental health, primary and aged care public and private sectors. Students will, on completion of the course, have the capacity and capability of applying these skills in a range of management positions and become leaders and champions of change. Innovative and creative elective units are designed to allow different disciplines to focus on their areas of speciality.

**Admission Requirements (Onshore):**

Completion of a Bachelor degree (AQF Level 7) or equivalent in a health discipline. Preparation for the course through previous study or professional experiences will be considered on a case-by-case basis.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Access to adequate library resources and to the Internet is essential for external students.

**Employment Prospects:**

Enhanced quality, safety and management skills acquired will position students to meet consumer expectations of the healthcare system and to fulfil industry demand for increased middle management skills, mentoring, supervision and coaching skills in order to enhance the quality of services. Positions such as Accreditation Coordinator, Quality Manager, Quality and Risk Manager are essential within health services, particularly the private and aged care sectors, for their accreditation. Successful completion of this course will put graduates in a favourable position to fill such roles.

**Main Research Areas:**

Health, quality and management

**Advanced Standing:**

Up to 12 credit points of advanced standing is available to students who have completed a Level 8 Graduate Certificate or a Bachelors degree with Honours.

**Course Structure - 36 credit points**

University regulations require completion of a minimum of 24 points at 600-level and up to 12 points at 500-level for a 36 point Masters by Coursework degree.

**Core Units - 33 credit points**

SHP501 Safety and Quality in Health Care - 3 points  
MURDOCH: S1-external, S2-external

SHP612 Managing in a Health Care Environment - 3 points  
MURDOCH: S1-external

SHP511 Leadership in Health Care - 3 points  
MURDOCH: S1-external, S2-external

SHP632 Applied Health Research Methods: From Research to Practice - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MANDURAH: S2-external

SHP603 Applied Health Services Project - 6 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SHP602 Human Factors: The Impact on Patient Safety - 3 points  
MURDOCH: S2-external

SHP510 Bioethics and Law for Health Care Leadership - 3 points  
MURDOCH: S1-external, S2-external

SHP639 Financial Management in Health Care - 3 points  
MURDOCH: S1-external

SHP541 Health Policy in an Australian Context - 3 points  
MURDOCH: S1-external, S2-external

SHP604 Reflective Practice in Health Management - 3 points  
MURDOCH: S2-external

**Specified Electives - 3 credit points**

Select from the following:

SHP638 Health Care Education - 3 points  
Not available this year

MBS689 Risk Management - 3 points  
MURDOCH: SUM-internal, SUM-external

SHP641 Clinical Governance - 3 points  
MURDOCH: S1-external

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

Or 600-level units from related coursework Masters, subject to the approval of the Academic Chair.

---

## HEALTH ADMINISTRATION POLICY AND LEADERSHIP

---

### MASTER OF HEALTH ADMINISTRATION, POLICY AND LEADERSHIP (MHAPL)

Sir Walter Murdoch School of Public Policy and International Affairs

*Master of Health Administration, Policy and Leadership (MHAPL)*

Course Codes: M1267

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Master of Health Administration, Policy and Leadership (HAPL) is a multidisciplinary program providing specialised skills in health policy, administration, management, economics, law, epidemiology, informatics and communications for future health-industry leaders. HAPL is a pan-University program drawing together every School's core expertise in research and teaching. Students will be connecting with the health industry's future employers locally, nationally and internationally. Scholarships, internships and international exchanges are part of the degree, the only one of its kind in Australia.

**Admission Requirements (Onshore):**

A Bachelor's degree (or equivalent) in any field.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Health is one of Australia's largest industries, with over 1 million people employed nationally. It is also WA's largest single employment sector. International trends suggest that the increasing demand for executives, managers, professionals, administrators and analysts working in the healthcare industry will require specialised multidisciplinary skills and qualifications in health administration, policy, management, economics, law, epidemiology, informatics

and communications. Individuals already in the workforce will increasingly need to develop these skills to progress in their career. It is expected that the main employment prospects for graduates of this course will be in the local, national and international health industry, including pharmaceutical and medical devices firms, NGOs, health insurers, regulatory agencies, hospitals and integrated care organisations, health ministries, departments, and other governmental agencies, as well as universities and commercial research organisations.

#### **Main Research Areas:**

Health policy, systems, administration, economics, management & leadership, law, informatics, public health.

#### **Advanced Standing:**

A student's advanced standing is assessed at the time of application, taking into account level of higher study and/or professional experience. Up to 12 points (0.5 year) of advanced standing is available to students with:

- \* a Bachelor degree with a major in a cognate discipline to the Masters course; or
  - \* a Bachelor degree in an unrelated discipline and a Graduate Certificate or Diploma in a cognate discipline to the Masters course; or
  - \* an Honours degree or equivalent in an unrelated discipline; or
  - \* a Bachelor degree in an unrelated discipline and two years of relevant, documented professional experience.
- Up to 24 points (1 year) of advanced standing is available to students with:
- \* an Honours degree or equivalent in a cognate discipline to the Masters course; or
  - \* an Honours degree or equivalent in an unrelated discipline and at least two years of relevant documented professional experience.
- A student admitted with 24 points of advanced standing may not be able to complete a full specialisation.

### **Course Structure - 48 credit points**

#### **Core Units - 12 credit points**

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

LLM614 Health Law - 3 points  
MURDOCH: S1-internal

VET656 Public Health and Epidemiology - 3 points  
MURDOCH: S2-internal

#### **Specialisation - 12 credit points**

Select from one of the following specialisations:

##### **Administration and Leadership Specialisation**

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

MBS651 Leading and Managing Nonprofit Organisations - 3 points  
MURDOCH: SP17-internal, SP17-external

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

##### **Informatics and Analytics Specialisation**

SWM533 Principles of Health Informatics - 3 points  
MURDOCH: S1-internal, S1-external

SWM531 Advanced Topics in Health Informatics and Bioinformatics - 3 points

MBS603 Data, Metrics, Reporting and Analytics - 3 points  
MURDOCH: S2-internal, S2-external

MCM507 Health Communication - 3 points  
MURDOCH: S1-internal

#### **Policy and Evaluation Specialisation**

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

SWM613 Public Policy Perspectives - 6 points  
MURDOCH: S1-internal

#### **Capstone Experience - 3 to 12 credit points**

Select one option from the following:

##### **Supervised Thesis**

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

SWM617 Supervised Research Thesis - 6 points  
MURDOCH: S1-internal, S2-internal

OR

SWM6171 Supervised Research Thesis - 9 points  
MURDOCH: S1-internal, S2-internal

##### **Research Internship**

SWM619 Research Internship - 6 points  
MURDOCH: S1-internal, S2-internal

Students undertaking an extended internship of 12 weeks/500 hours for 12 points should enrol in SWM619 Research Internship and

SWM6191 Internship Professional Placement - 6 points  
MURDOCH: S2-internal

##### **Case Study**

SWM620 Supervised Case Study Project - 3 points  
MURDOCH: S1-internal, S2-internal, W-internal

#### **Specified Electives - 12 to 21 credit points**

Select from the following units where not already selected for chosen specialisation.

##### **Recommended for Administration and Leadership Specialisation**

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBS535 Managing, Evaluating and Developing Human Resources - 3 points  
MURDOCH: S1-internal, S1-external

MBS687 Effective Leadership - 3 points  
Not available this year

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

MBS568 Organisational Change, Management and Consultancy - 3 points  
MURDOCH: S2-internal, S2-external

MBS663 Leading the Engaged Enterprise - 6 points  
MURDOCH: S2-internal, S2-external

MBS664 Strategies for Growth and Excellence - 6 points  
MURDOCH: S2-internal, S2-external

MBS673 Entrepreneurship and Innovation Management - 3 points  
MURDOCH: W-internal, W-external

VET655 One Health Management and Leadership - 3 points  
MURDOCH: S1-external

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

MBS603 Data, Metrics, Reporting and Analytics - 3 points  
MURDOCH: S2-internal, S2-external

#### **Recommended for Informatics and Analytics Specialisation**

MBS664 Strategies for Growth and Excellence - 6 points  
MURDOCH: S2-internal, S2-external

PSY609 Changing Behaviour in Policy and Practice: The Psychology of Influence - 3 points  
Not available this year

SWM629 Thinking and Reasoning Economically - 3 points  
MURDOCH: S1-internal

SWM645 Public Sector Economics - 3 points

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

VET655 One Health Management and Leadership - 3 points  
MURDOCH: S1-external

#### **Recommended for Policy and Evaluation Specialisation**

VET655 One Health Management and Leadership - 3 points  
MURDOCH: S1-external

SWM629 Thinking and Reasoning Economically - 3 points  
MURDOCH: S1-internal

SWM645 Public Sector Economics - 3 points

MBS603 Data, Metrics, Reporting and Analytics - 3 points  
MURDOCH: S2-internal, S2-external

SWM511 Critical Approaches to Development - 3 points  
MURDOCH: S1-internal

LLM601 International Law - 3 points  
MURDOCH: S1-internal

SWM612 Global Governance, Security and Economy - 6 points  
MURDOCH: S2-internal

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

PSY609 Changing Behaviour in Policy and Practice: The Psychology of Influence - 3 points  
Not available this year

BIO639 Global Biosecurity - 3 points  
MURDOCH: S1-internal, S1-external

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

## HEALTH COMMUNICATION

### GRADUATE DIPLOMA IN HEALTH COMMUNICATION (GRADDIPHTHCOMM)

School of Arts

Graduate Diploma in Health Communication (GradDipHthComm)

Course Codes: G1075

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

In Australia, health communication is a diverse field working across government, non-government, non-profit, private and public organisations and impacting on the health decision-making behaviour of a diverse and complex public. Health communicators work to translate and mediate the myriad discourses within the industry including policy, research, clinical practice and public health. Students will work on real-life projects within this context and will engage with current theory and practice in order to critique health communication campaigns in Australia and internationally.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree in any field, or equivalent training, or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Employment Prospects:**

Health communication is a diverse professional area with employment opportunities available across diverse industries in Australia and internationally. Health communicators are the vital link between policy makers, health providers, clinicians, researchers and public health institutions working at all levels of health intervention, from grass roots community all the way to the international arena. Graduates of this course will be able to seek employment in the health and allied industries in a range of roles including, but not limited to, strategic communications specialists, communications advisors, media advisors, communications consultants, digital communications specialists, community engagement officers, stakeholder managers, government communications advisors, communications policy advisors and public relations managers.

#### **Main Research Areas:**

Health communication, behaviour change, communication and media studies, public relations, digital health communication

### **Course Structure - 24 credit points**

#### **Core Units - 18 credit points**

MCM501 Critical and Ethical Issues in Communication - 3 points  
MURDOCH: S1-internal

MCM502 Web Strategy - 3 points  
MURDOCH: S1-internal

MCM506 Strategic Communication - 3 points  
MURDOCH: S1-internal

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

MCM507 Health Communication - 3 points  
MURDOCH: S1-internal

MCM608 Health Communication Project - 3 points  
MURDOCH: S2-internal

**Specified Electives - 6 credit points**

Select from the units below, with a maximum of 3 credit points at 600 level.

MCM605 Public Relations, Communication and Culture - 3 points  
MURDOCH: S2-internal

WEB564 Web Analytics - 3 points  
MURDOCH: S2-internal

WEB565 Web Planning - 3 points  
MURDOCH: S2-internal

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external,  
W-internal, W-external

SHP501 Safety and Quality in Health Care - 3 points  
MURDOCH: S1-external, S2-external

SWM533 Principles of Health Informatics - 3 points  
MURDOCH: S1-internal, S1-external

LLM614 Health Law - 3 points  
MURDOCH: S1-internal

PSY609 Changing Behaviour in Policy and Practice: The  
Psychology of Influence - 3 points  
Not available this year

---

## HUMAN RESOURCES MANAGEMENT

---

### GRADUATE CERTIFICATE IN HUMAN RESOURCES MANAGEMENT (GRADCERTHRM)

School of Business and Governance

Graduate Certificate in Human Resources Management (GradCertHRM)

Course Codes: C1108

Duration: 1 semester full-time (Semester 1 commencement only) or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- International students must commence in Semester 1 only.

Restriction: All graduate courses are subject to restriction.

This award is a professionally-oriented coursework qualification in Human Resources Management (HRM) and is accredited with the Australian Human Resources Institute (AHRI). It provides students with a foundation of the organisational context and objectives necessary for the development of HR strategy within a legal and governance framework. Graduates of this degree can translate and adapt theory into substantiated ethical and sustainable people management advice.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher; or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Employment prospects include specialist organisational HR roles, reflecting the importance of HRM in the organisation. Those individuals with ethical values-based decision-making skills are keenly sought after.

**Professional Accreditation:**

Accredited with the Australian Human Resources Institute (AHRI).

**Main Research Areas:**

Human Resources Management.

**Further Study:**

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Human Resources Management or the MHRM. An offer must be received before enrolling in any further units.

**Course Structure - 12 credit points****Core Units - 9 credit points**

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBL501 Human Resource Management Law - 3 points  
MURDOCH: S1-internal, S1-external

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Specified Electives - 3 credit points**

Choose one unit from the following:

MBS535 Managing, Evaluating and Developing Human Resources - 3 points  
MURDOCH: S1-internal, S1-external

MBS568 Organisational Change, Management and Consultancy - 3 points  
MURDOCH: S2-internal, S2-external

MBS520 Research Preparation for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
SUM-external, U-external

---

### GRADUATE DIPLOMA IN HUMAN RESOURCES MANAGEMENT (GRADDIPHRM)

School of Business and Governance

Graduate Diploma in Human Resources Management (GradDipHRM)

Course Codes: G1060

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This award is a professionally-oriented coursework qualification in Human Resources Management (HRM) and is accredited with the Australian Human Resources Institute (AHRI).

It provides students with a sound understanding of strategic business contexts and objectives necessary for the development of HR strategy within a legal and governance framework. Graduates of this degree can translate and adapt theory to engage with stakeholders to develop ethical and sustainable HR solutions that are appropriate to the organisational context.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher; or satisfactory preparation

for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Employment prospects include specialist organisational HR roles to strategic planning roles, reflecting the importance of HRM in the organisation. Those individuals with values-based decision-making skills are keenly sought after.

**Professional Accreditation:**

Accredited with the Australian Human Resources Institute (AHRI).

**Main Research Areas:**

Human Resources Management.

**Further Study:**

Students who successfully complete this course may apply for admission to the Master of Human Resources Management.

**Course Structure - 24 credit points**

**Core Units - 18 credit points**

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBL501 Human Resource Management Law - 3 points  
MURDOCH: S1-internal, S1-external

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS535 Managing, Evaluating and Developing Human Resources - 3 points  
MURDOCH: S1-internal, S1-external

MBS568 Organisational Change, Management and Consultancy - 3 points  
MURDOCH: S2-internal, S2-external

MBS520 Research Preparation for Business - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

MBS624 Employment Relations and Asia Pacific Contexts - 3 points

MBS651 Leading and Managing Nonprofit Organisations - 3 points  
MURDOCH: SP17-internal, SP17-external

MBS688 Acquisition of Human Resources - 3 points  
MURDOCH: S2-internal, S2-external

MBS668 Managing Remuneration, Benefits and Motivation - 3 points  
MURDOCH: S2-internal, S2-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

**MASTER OF HUMAN RESOURCES MANAGEMENT (MHRM)**

School of Business and Governance

Master of Human Resources Management (MHRM)

Course Codes: M1213

Duration: 2 years full-time

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English)

Restriction: All graduate courses are subject to restriction.

Employers understand the need for capable and credentialled Human Resource practitioners to build competitive advantage in the globalised marketplace.

Completing a graduate qualification in Human Resources Management (HRM) signals to the labour market an applied understanding of contemporary HR practice.

The Master of HRM at Murdoch University is a professionally-oriented master degree. It provides the opportunity for students to develop knowledge of the critical components of a productive and sustainable organisational culture; and builds the requisite skills so the HR practitioner can translate and adapt theory into practice in order to offer substantiated strategic people management advice.

The course is accredited with the Australian Human Resources Management Institute; and is delivered in a flexible mode which allows students to balance work, study and other personal commitments.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher and evidence of two years of work experience; or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

There may be a reduction in choice of units if completing this course in the external mode.

**Employment Prospects:**

Employment prospects range from specialist HR roles to strategic planning partners, reflecting the importance of HRM in the organisation.

Graduates who can demonstrate capability in developing strategies to attract, retain, develop, engage and reward a capable workforce reflective of the organisation's diverse community and service delivery requirements in a workplace are sought after.

**Professional Accreditation:**

Accredited with the Australian Human Resources Institute (AHRI).

**Main Research Areas:**

Human resource management.

**Advanced Standing:**

Up to 12 points of advanced standing is available to students with a recognised Graduate qualification in a cognate area or evidence of two or more years relevant work experience.

**Nested Awards:**

Students can opt out of the Master of Human Resources

Management and exit with either the Graduate Certificate or Graduate Diploma subject to satisfying the course requirements.

### Course Structure - 48 credit points

At least 24 Credit Points are required at 600 level (AQF level 9)

#### Core Units - 24 credit points

MBS555 Human Resource Management Perspectives - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

MBS688 Acquisition of Human Resources - 3 points

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TMD-internal

KAPLAN-SGP: TMA-internal

MBL501 Human Resource Management Law - 3 points

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS535 Managing, Evaluating and Developing Human Resources - 3 points

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

MBS538 Organisational Behaviour and Management - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

DUBAI-ISC: TJD-internal, TMD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS668 Managing Remuneration, Benefits and Motivation - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

MBS520 Research Preparation for Business - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAPLAN-SGP: TMA-internal, TSA-internal

MBS603 Data, Metrics, Reporting and Analytics - 3 points

MURDOCH: S2-internal, S2-external

#### Specified Electives - 24 credit points

Select from the following:

MBS539 Accounting for Managers - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

MBS643 Business and Governance Research Practicum - 6 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

MBS685 Project Management - 3 points

MURDOCH: S1-internal, W-internal, W-external

DUBAI-ISC: TJD-internal

KAPLAN-SGP: TMA-internal

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points

MURDOCH: S1-internal

MBS624 Employment Relations and Asia Pacific Contexts - 3 points

KAPLAN-SGP: TMA-internal

MBS568 Organisational Change, Management and Consultancy - 3 points

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TSA-internal

MBS651 Leading and Managing Nonprofit Organisations - 3 points

MURDOCH: SP17-internal, SP17-external

MBS663 Leading the Engaged Enterprise - 6 points

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS664 Strategies for Growth and Excellence - 6 points

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS654 Business Professional Placement - 6 points

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

PSY612 Work and Well-being - 3 points

MURDOCH: S2-internal, S2-external

EDN541 Practical Methods of Instruction - 3 points

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TJD-internal

MBS673 Entrepreneurship and Innovation Management - 3 points

MURDOCH: W-internal, W-external

DUBAI-ISC: TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

MBS684 Managing Strategic Risk and Projects - 6 points

Not available this year

Special Topics are available from time to time and may be used as a Specified Elective. Students should contact the Academic Chair about availability.

Other units may be substituted with permission of the Academic Chair.

## HUMAN RESOURCES AND SAFETY

### See also:

Psychology

### GRADUATE CERTIFICATE IN HUMAN RESOURCES AND SAFETY (GRADCERTHRS)

School of Psychology and Exercise Science

Graduate Certificate in Human Resources and Safety (GradCertHRS)

Course Codes: C1114

Duration: 1 to 2 years part-time only

#### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This Graduate Certificate is relevant to those wishing to apply knowledge of organisational psychology in business, industrial and other organisational contexts. It is particularly appropriate as a second discipline area for graduates in Commerce, Law, Education, Sociology, and Environmental or Biological Science who intend working in an area requiring knowledge of: Job Assessment Methods, Performance Appraisal, Staffing, Human Resource Development, Training, Safety, Rehabilitation, Retirement, Retrenchment, Management of Change and Organisational Decision Making.

Although enrolment is open to graduates in any discipline, candidates should possess a functional understanding of statistics and research methods. Candidates holding a four-year psychology degree and who intend to pursue a career as a Registered Psychologist should normally enrol for the Master of Applied Psychology. However, those four-year psychology graduates who complete the Graduate Certificate, and who subsequently enrol in the Masters course will be given credit for relevant units completed. (Note that students without a four-year degree in Psychology are not eligible for admission to the Master of Applied Psychology).

**Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, in any discipline preferably including quantitative or statistical skills.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This Graduate Certificate is available to graduates of any discipline, including psychology, who do not intend to pursue a career as a Registered Psychologist but who intend to work in an area where knowledge of organisational psychology human resources and safety will be of benefit.

**Further Study:**

Students who successfully complete this course may apply for admission to the Graduate Diploma in Consultancy Psychology.

**Course Structure - 12 credit points****Core Units - 9 credit points**

PSY568 Human Resources - 3 points  
MURDOCH: S1-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

PSY552 Organisation of Work - 3 points  
MURDOCH: S2-internal

**Specified Electives - 3 credit points**

Select from the following:

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDU645 Adult Learning in Education and Work - 3 points  
MURDOCH: S2-external

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
SUM-external, U-external

Other electives at 500/600-level may be substituted with permission from the Academic Chair.

**INFORMATION TECHNOLOGY****GRADUATE CERTIFICATE IN INFORMATION TECHNOLOGY (GRADCERTIT)**

School of Engineering and Information Technology

Graduate Certificate in Information Technology (GradCertIT)

Course Codes: C1109

Duration: 1 semester full-time or part-time equivalent (depending on unit selection)

**Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Graduate Certificate in Information Technology is an entry-level course, designed to provide professionals with a qualification in the

IT field and graduates in information technology related disciplines with a further qualification. The course emphasises professional practice and effective communication using technical and nontechnical means. In addition, students select from a range of elective units according to their interests. The course may be completed over one semester full-time for Semester 1 enrolment.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in IT (AQF Level 7);  
OR recognised non-IT Bachelor's degree plus two years of relevant IT experience;  
OR recognised non-IT Honours degree (AQF Level 8) plus relevant IT experience.

Recognition of relevant and current informal or non-formal learning may be used for entry requirements, and should be discussed with the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

The course is available by on-campus attendance only.

**Employment Prospects:**

Graduates of the Graduate Certificate in IT will be able to choose from a variety of IT-related careers, both as IT practitioners and in supervisory and administrative roles within a wide range of public and private organisations.

**Further Study:**

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Information Technology Management or the Graduate Diploma in Internetworking and Security.

**Course Structure - 12 credit points****Core Units - 3 credit points**

ICT521 IT Professional Practice - 3 points  
MURDOCH: S1-internal

**Specified Electives - 9 credit points**

Select from the Specified Elective Unit List below.

ICT505 Knowledge Management - 3 points  
MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points  
MURDOCH: S2-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points  
MURDOCH: S2-internal, S2-external

ICT502 Applied Information Security Management - 3 points  
MURDOCH: S2-internal, S2-external

Or other units approved by the Academic Chair.

**GRADUATE DIPLOMA IN INFORMATION TECHNOLOGY MANAGEMENT (GRADDIPITMAN)**

School of Engineering and Information Technology

Graduate Diploma in Information Technology Management (GradDipITMan)

Course Codes: G1051

Duration: 1 year full-time or part-time equivalent



**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Diploma in Information Technology Management is designed to provide graduates in information technology related disciplines with a further qualification in the field. The course emphasises professional practice and effective communication using technical and nontechnical means. Knowledge management, data communications and business analysis are covered. In addition, students complete an individual study project in an area of interest.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in IT (AQF Level 7);  
OR recognised non-IT Bachelor's degree plus an approved Diploma in IT (AQF Level 8);  
OR recognised non-IT Bachelor's degree plus two years of relevant IT experience;  
OR recognised non-IT Honours degree (AQF Level 8) plus relevant IT experience.

Recognition of relevant and current informal or non-formal learning may be used for entry requirements, and should be discussed with the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

The course is available by on-campus attendance only.

**Employment Prospects:**

Graduates of the Graduate Diploma in IT Management will be able to choose from a variety of IT-related careers, both as IT practitioners and in supervisory and administrative roles within a wide range of public and private organisations.

**Further Study:**

Students who successfully complete the Graduate Diploma may apply for admission to the Master of Information Technology.

**Course Structure - 24 credit points****Core Units - 18 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT505 Knowledge Management - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points

MURDOCH: S2-internal, S2-external

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

**Specified Electives - 6 credit points**

Select from the following:

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

**GRADUATE DIPLOMA IN INTERNETWORKING AND SECURITY (GRADDIPINTWKSECUR)**

School of Engineering and Information Technology

*Graduate Diploma in Internetworking and Security (GradDiplntwkSecur)*

Course Codes: G1059

*Duration: 1 year full-time (if commencing in Semester 1) or part-time equivalent subject to unit availability; students commencing mid-year (Semester 2) will need 1.5 years minimum enrolment (a total of 3 semesters) to complete requirements*

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Diploma in Internetworking and Security provides a thorough and practical grounding in network design, network administration, network management and security. The course structure is flexible allowing students to choose units that target their skills in security, LAN and Wireless network design, global network design or network management and tailor the course to meet their career needs.

Most specialisations prepare students to sit one or more industry certification exams. These certifications include Cisco Certified Network Associate (CCNA), Certified Wireless Network Administrator (CWNA), Cisco Certified Network Professional (CCNP), Managing Cisco Network Security (MCNS) and Cisco Secure PIX Firewall Advanced (CSPFA).

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in IT (AQF Level 7);  
OR recognised non-IT Bachelor's degree plus an approved Diploma in IT (AQF Level 8);  
OR recognised non-IT Bachelor's degree plus two years of relevant IT experience;  
OR recognised non-IT Honours degree (AQF Level 8) plus relevant IT experience.

Recognition of relevant and current informal or non-formal learning may be used for entry requirements, and should be discussed with the Academic Chair.

Students who have completed the BSc in Internetworking and Security may not enrol in this course.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

The course is available by on-campus attendance only. Internet access is required for all students.

**Employment Prospects:**

The following employers are increasingly concerned with network performance and security: network service providers, banking and finance organisations, government and the military. There is also scope to work as an independent network and security consultant.

**Professional Recognition:**

Graduates are eligible to sit for the Cisco Certified Network Associate (CCNA) industry certification exam.

**Further Study:**

Students who successfully complete the Graduate Diploma may apply for admission to the Master of Information Technology.

**Course Structure - 24 credit points**

**Core Units - 15 credit points**

ICT521 IT Professional Practice - 3 points  
MURDOCH: S1-internal

ICT503 Wireless Data Communications - 3 points  
MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT535 Advanced Business Data Communications - 3 points  
MURDOCH: S2-internal

ICT502 Applied Information Security Management - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 9 credit points**

Select from the following units, with a maximum of two units at 600 level.

ICT508 Information Technology Project Management - 3 points  
MURDOCH: S2-internal

ICT517 Advanced IT Study Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external,  
U-internal

ICT613 Router and Firewall Security - 3 points  
MURDOCH: S1-internal

ICT609 Network Switching - 3 points  
MURDOCH: S1-internal

ICT611 Advanced Routing - 3 points  
MURDOCH: S2-internal

6

**MASTER OF INFORMATION TECHNOLOGY (MIT)**

School of Engineering and Information Technology

Master of Information Technology (MIT)

Course Codes: M1220

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course is a professional qualification in Information Technology, designed to provide candidates with appropriate practical understanding, skills and knowledge for managing IT use, change and development. The primary aim is to allow IT professionals the opportunity for professional upgrading or an extension of their qualifications and experience.

The degree may be completed in one of two ways:

- Coursework: students complete 48 credit points of advanced graduate-level units.
- Coursework and Dissertation: students complete 36 credit points of coursework units and a 12-credit point dissertation.

Students may exit the Masters at various points, to complete the Graduate Certificate in Information Technology or the Graduate Diploma in either Information Technology Management or Internetworking and Security depending on unit selection. The Graduate Diploma in Information Technology Management forms the first half of the MIT (IT Management specialisation), and the Graduate Diploma in Internetworking and Security forms the first half of the MIT (Internetworking and Security specialisation).

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in IT (AQF Level 7);  
OR recognised non-IT Bachelor's degree plus an approved Diploma in IT (AQF Level 8);

OR recognised non-IT Honours degree (AQF Level 8) plus five or more years of relevant experience.

Recognition of relevant and current informal or non-formal learning may be used for entry requirements, and should be discussed with the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

There is a critical need for modern IT professionals responsible for establishing, maintaining and developing information systems in a wide variety of sectors including commerce, telecommunications, health, education, architecture, mining, engineering, law and government and non-government organisations.

**Professional Recognition:**

Graduates of the Internetworking and Security specialisation are eligible to sit for the following industry certification exams: Cisco Certified Network Associate (CCNA), Cisco Certified Network Professional (CCNP), Managing Securing Networks with Cisco Routers and Switches (SNRS).

**Further Study:**

Students who successfully complete the Master of Information Technology may apply for admission to the Doctor of Information Technology. The MIT (Coursework and Dissertation) also enables students to move on to study for a PhD in Information Technology.

**Nested Awards:**

Students can opt out of the Master of Information Technology and exit with the Graduate Certificate in Information Technology or the Graduate Diploma in Information Technology Management or the Graduate Diploma in Internetworking and Security, subject to satisfying the course requirements.

**IT Management (Coursework) Specialisation****Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

**Core Units - 39 credit points**

ICT521 IT Professional Practice - 3 points  
MURDOCH: S1-internal

ICT505 Knowledge Management - 3 points  
MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points  
MURDOCH: S2-internal

ICT502 Applied Information Security Management - 3 points  
MURDOCH: S2-internal, S2-external

ICT501 Business Analysis and Systems Development Approaches - 3 points  
MURDOCH: S2-internal, S2-external

ICT615 Information Technology Research Methods - 3 points  
MURDOCH: S1-internal

ICT612 Human Factors in Information Technology - 3 points  
MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points  
MURDOCH: S2-internal

ICT622 Information Technology Strategy - 3 points  
MURDOCH: S1-internal

ICT621 IT Group Project - 6 points

MURDOCH: S1-internal, S2-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

### **Specified Electives - 9 credit points**

Select from the following:

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT609 Network Switching - 3 points

MURDOCH: S1-internal

ICT613 Router and Firewall Security - 3 points

MURDOCH: S1-internal

ICT611 Advanced Routing - 3 points

MURDOCH: S2-internal

TLC501 Communication Skills for Postgraduate Study - 3 points

MURDOCH: S1-internal, S2-internal

ICT513 Data Analytics - 3 points

MURDOCH: S2-internal, S2-external

ICT515 Foundations of Data Science - 3 points

MURDOCH: S1-internal

---

### ***Internetworking and Security (Coursework) Specialisation***

#### **Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48 point Masters by Coursework degree.

#### **Core Units - 36 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT609 Network Switching - 3 points

MURDOCH: S1-internal

ICT613 Router and Firewall Security - 3 points

MURDOCH: S1-internal

ICT611 Advanced Routing - 3 points

MURDOCH: S2-internal

ICT623 Networking Group Project - 6 points

MURDOCH: S1-internal, S2-internal

### **Specified Electives - 12 credit points**

Select from the following:

TLC501 Communication Skills for Postgraduate Study - 3 points

MURDOCH: S1-internal, S2-internal

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT505 Knowledge Management - 3 points

MURDOCH: S1-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points

MURDOCH: S2-internal, S2-external

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

ICT687 Structured Workplace Learning Placement - Information Technology - 12 points

MURDOCH: S1-internal, S2-internal

ICT513 Data Analytics - 3 points

MURDOCH: S2-internal, S2-external

ICT515 Foundations of Data Science - 3 points

MURDOCH: S1-internal

---

### ***Data Science (Coursework) Specialisation***

#### **Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

#### **Core Units - 36 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT513 Data Analytics - 3 points

MURDOCH: S2-internal, S2-external

ICT515 Foundations of Data Science - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT602 Advanced Data Analysis - 3 points

MURDOCH: S1-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

ICT625 Data Science Group Project - 6 points

MURDOCH: S2-internal

**Specified Electives - 12 credit points**

Select from the following:

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT505 Knowledge Management - 3 points

MURDOCH: S1-internal

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT609 Network Switching - 3 points

MURDOCH: S1-internal

ICT613 Router and Firewall Security - 3 points

MURDOCH: S1-internal

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

TLC501 Communication Skills for Postgraduate Study - 3 points

MURDOCH: S1-internal, S2-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points

MURDOCH: S2-internal, S2-external

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT611 Advanced Routing - 3 points

MURDOCH: S2-internal

ICT687 Structured Workplace Learning Placement - Information Technology - 12 points

MURDOCH: S1-internal, S2-internal

MAS225 Discrete Mathematics and Management Science - 3 points

MURDOCH: S2-internal, S2-external

MAS352 Time Series Analysis - 3 points

MURDOCH: S1-internal, S1-external

---

**IT Management (Coursework and Dissertation) Specialisation****Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

**Core Units - 36 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT505 Knowledge Management - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT501 Business Analysis and Systems Development Approaches - 3 points

MURDOCH: S2-internal, S2-external

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT678 Information Technology Research Dissertation - 12 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

**Specified Electives - 12 credit points**

Select from the following:

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

---

**Internetworking and Security (Coursework and Dissertation) Specialisation****Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48 point Masters by Coursework degree.

**Core Units - 42 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT609 Network Switching - 3 points

MURDOCH: S1-internal

ICT613 Router and Firewall Security - 3 points

MURDOCH: S1-internal

ICT611 Advanced Routing - 3 points

MURDOCH: S2-internal

ICT678 Information Technology Research Dissertation - 12 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

**Specified Electives - 6 credit points**

Select from the following:

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

---

### **Data Science (Coursework and Dissertation) Specialisation**

#### **Course Structure - 48 credit points**

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

#### **Core Units - 42 credit points**

ICT521 IT Professional Practice - 3 points

MURDOCH: S1-internal

ICT513 Data Analytics - 3 points

MURDOCH: S2-internal, S2-external

ICT515 Foundations of Data Science - 3 points

MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points

MURDOCH: S1-internal

ICT508 Information Technology Project Management - 3 points

MURDOCH: S2-internal

ICT601 Business Analytics - 3 points

MURDOCH: S2-internal

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

ICT602 Advanced Data Analysis - 3 points

MURDOCH: S1-internal

ICT619 Intelligent Systems Applications - 3 points

MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points

MURDOCH: S2-internal

ICT678 Information Technology Research Dissertation - 12 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

#### **Specified Electives - 6 credit points**

Select from the following:

ICT503 Wireless Data Communications - 3 points

MURDOCH: S1-internal

ICT505 Knowledge Management - 3 points

MURDOCH: S1-internal

ICT612 Human Factors in Information Technology - 3 points

MURDOCH: S1-internal

ICT609 Network Switching - 3 points

MURDOCH: S1-internal

ICT613 Router and Firewall Security - 3 points

MURDOCH: S1-internal

ICT517 Advanced IT Study Project - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT622 Information Technology Strategy - 3 points

MURDOCH: S1-internal

TLC501 Communication Skills for Postgraduate Study - 3 points

MURDOCH: S1-internal, S2-internal

ICT501 Business Analysis and Systems Development Approaches - 3 points

MURDOCH: S2-internal, S2-external

ICT502 Applied Information Security Management - 3 points

MURDOCH: S2-internal, S2-external

ICT535 Advanced Business Data Communications - 3 points

MURDOCH: S2-internal

ICT611 Advanced Routing - 3 points

MURDOCH: S2-internal

MAS225 Discrete Mathematics and Management Science - 3 points

MURDOCH: S2-internal, S2-external

MAS352 Time Series Analysis - 3 points

MURDOCH: S1-internal, S1-external

---

## **DOCTOR OF INFORMATION TECHNOLOGY (DIT)**

School of Engineering and Information Technology

*Doctor of Information Technology (DIT)*

Course Codes: D1059

Duration: 3 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

The Doctor of Information Technology (DIT) is an intensive course of study leading to a professional doctorate in Information Technology. The first two semesters consist of a selection from the School's masters-level units covering approaches to information technology and a wide range of topics of current concern in the industry. The final four research semesters culminate with the writing of a research dissertation which embodies a significant contribution to professional practice in Information Technology.

#### **Admission Requirements (Onshore):**

To be eligible for admission as a candidate for a Doctor of Information Technology, an applicant must have: a Bachelor Degree with at least a 2A Honours normally in the same discipline (AQF level 8); or a Masters Degree normally in the same discipline (AQF level 9) and satisfy the Manager with evidence of substantive and significant scholarly or professional attainments; or a Bachelor Degree normally in the same discipline (AQF level 7) and satisfy the Manager with evidence of substantive and significant scholarly or professional attainments including satisfactory research preparation equivalent of AQF level 8 or 9.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Advanced Standing:**

Up to 24 points (1 year) of advanced standing is available to students with a Masters Degree in IT.

#### **Course Structure - 72 credit points**

In Semesters 3, 4, 5 and 6, full-time students should enrol in the thesis unit for 12 points each semester and part-time students for 6 points each semester, until the submission of the thesis.

#### **Semesters 1 and 2 - 24 credit points**

##### **Core Unit - 3 credit points**

ICT615 Information Technology Research Methods - 3 points

MURDOCH: S1-internal

**Specified Electives - 21 credit points**

Select from the following:

ICT501 Business Analysis and Systems Development Approaches - 3 points  
MURDOCH: S2-internal, S2-external

ICT612 Human Factors in Information Technology - 3 points  
MURDOCH: S1-internal

ICT546 Local Area Network Design and Implementation - 3 points  
MURDOCH: S1-internal

ICT616 Data Resources Management - 3 points  
MURDOCH: S2-internal

ICT517 Advanced IT Study Project - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

ICT508 Information Technology Project Management - 3 points  
MURDOCH: S2-internal

ICT619 Intelligent Systems Applications - 3 points  
MURDOCH: S1-internal

ICT622 Information Technology Strategy - 3 points  
MURDOCH: S1-internal

ICT700 Computer Science Research Topic - 3 points  
MURDOCH: S1-internal, S2-internal

ICT704 Information Systems Research Topic - 3 points  
MURDOCH: S1-internal, S2-internal

**Semester 3 - 12 credit points****Core Units - 12 credit points**

ICT702 Doctor of Information Technology Thesis - 12 points  
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

**Semester 4 - 12 credit points****Core Units - 12 credit points**

ICT702 Doctor of Information Technology Thesis - 12 points  
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

**Semester 5 - 12 credit points****Core Units - 12 credit points**

ICT702 Doctor of Information Technology Thesis - 12 points  
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

**Semester 6 - 12 credit points****Core Units - 12 credit points**

ICT702 Doctor of Information Technology Thesis - 12 points  
MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

**INTERNATIONAL AFFAIRS****MASTER OF INTERNATIONAL AFFAIRS AND SECURITY (MIAS)**

Sir Walter Murdoch School of Public Policy and International Affairs

Master of International Affairs and Security (MIAS)

Course Codes: M1266

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Master of International Affairs and Security (MIAS) is a multi-disciplinary professional degree that explores the political, economic, strategic, cultural and legal forces that shape our region and world. The degree equips students with the knowledge and skills for careers in a wide variety of sectors including government and foreign affairs, international organisations, national and international NGOs, and the private sector.

MIAS students examine contemporary issues in political economy, resource management, the role of international institutions, international security, international law, human rights, conflict management, and regional architecture, and can choose from a range of electives to suit their professional needs and policy interests, including an opportunity to study Indonesian or Japanese.

**Admission Requirements (Onshore):**

Admission to the Masters degree is available to students who have a Bachelor degree in any area.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Suitable for students working in or seeking a career in all areas of international affairs, including the public, private and not-for-profit sectors. MIAS students will acquire the knowledge, skills and expertise in global public policy, relevant to a broad range of settings such as foreign ministries, security agencies, multinational corporations, regional and international organisations, and international NGOs.

**Advanced Standing:**

A student's advanced standing is assessed at the time of application, taking into account level of higher study and/or professional experience.

Up to 12 points (0.5 year) of advanced standing is available to students with:

- \* A Bachelor degree with a major in a cognate discipline to the Masters course
- \* Or, a Bachelor degree in an unrelated discipline and a Graduate Certificate or Diploma in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline
- \* Or, a Bachelor degree in an unrelated discipline and two years of relevant, documented professional experience

Up to 24 points (1 year) of advanced standing is available to students with:

- \* An Honours degree or equivalent in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline and at least two years of relevant documented professional experience

**Course Structure - 48 credit points****Core Units - 21 to 30 credit points****Theory - 18 credit points**

SWM649 Public Policy and International Affairs Foundations - 6 points  
MURDOCH: S1-internal

SWM612 Global Governance, Security and Economy - 6 points  
MURDOCH: S2-internal

SWM635 Security, Conflict and Violence - 3 points  
MURDOCH: S2-internal

LLM601 International Law - 3 points  
MURDOCH: S1-internal

### Capstone Experience - 3 to 12 credit points

Select one of the following options:

EITHER

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM617 Supervised Research Thesis - 6 points  
MURDOCH: S1-internal, S2-internal  
This 10,000-12,000 word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs

OR

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM6171 Supervised Research Thesis - 9 points  
MURDOCH: S1-internal, S2-internal  
(This 12,000 -15,000-word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs.)

OR

SWM619 Research Internship - 6 points  
MURDOCH: S1-internal, S2-internal

Alternatively, students can use this unit to participate in In-Country Indonesia Studies - a 6 point program run during the summer period by ACICIS. Students interested in this option should consult the Capstone Coordinator for application and enrolment information.

Students undertaking an extended internship of 12 weeks/500 hours for 12 points should enrol in SWM619 Research Internship and

SWM6191 Internship Professional Placement - 6 points  
MURDOCH: S2-internal

OR

SWM620 Supervised Case Study Project - 3 points  
MURDOCH: S1-internal, S2-internal, W-internal

### Specified Electives - 18 to 27 credit points

Select from the lists below.

#### Professional

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

MBS687 Effective Leadership - 3 points  
Not available this year

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBS651 Leading and Managing Nonprofit Organisations - 3

points  
MURDOCH: SP17-internal, SP17-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

TLC501 Communication Skills for Postgraduate Study - 3 points  
MURDOCH: S1-internal, S2-internal

#### Policy

SWM613 Public Policy Perspectives - 6 points  
MURDOCH: S1-internal

SWM611 States, Social Forces and Development - 6 points  
MURDOCH: S2-internal

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

SWM629 Thinking and Reasoning Economically - 3 points  
MURDOCH: S1-internal

SWM511 Critical Approaches to Development - 3 points  
MURDOCH: S1-internal

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

SWM515 Public Sector Management - 3 points  
MURDOCH: S1-internal

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

SWM645 Public Sector Economics - 3 points

SWM646 Parliamentary Democracy - 3 points

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

SWM648 Corruption, Anti-corruption and its Discontents - 3 points  
MURDOCH: S2-internal

SWM647 Cultural and Communications Policy - 3 points  
MURDOCH: S2-internal

SWM651 Comparative Governance and Public Administration - 3 points  
MURDOCH: S2-internal

#### Language

Students may take up to two language units in either Indonesian or Japanese. Placement in language units is at the discretion of the Academic Chair, following an assessment of the student's language skills. There may be restrictions for students completing the Masters in 24 points. Please refer to the Handbook for available units in Indonesian or Japanese.

## LAW

**See also:**  
Migration Law

### GRADUATE CERTIFICATE IN LEGAL PRACTICE (GRADCERTLP)

School of Law

Graduate Certificate in Legal Practice (GradCertLP)

Course Codes: C1132

Duration: 6 months full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course, taught on campus, allows you to gain the practice experience necessary for admission to the legal profession. It will place

you within the Clinical Legal Practice run in collaboration with SCALES Community Legal Centre. You can gain experience in any or all of our practice areas such as human rights, family or generalist law. It gives you the opportunity to undertake varied legal work under the supervision of our solicitors, including interviewing clients, legal research, formulating and giving advice as

well as law reform and policy work. It is only available to students who have undertaken Clinical Legal Education units throughout their degree.

**Admission Requirements (Onshore):**

Previous completion of one or more Clinical Legal Education Units as part of a Murdoch Law Degree (or Australian Law Degree).

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Professional Accreditation:**

Allows admission to the legal profession in WA and other Australian Jurisdictions. Accredited by College of Law and ANU

**Professional Recognition:**

Recognised by the Legal Profession as meeting admission requirements for work placement experience.

**Main Research Areas:**

Human Rights, Access to Justice, Civil Rights and Law and the Legal System

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

LLM512 Legal Practice Placement I - 6 points  
<span data-type="offering" data-unit="LLM512">MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)</span>

LLM513 Legal Practice Placement II - 6 points  
<span data-type="offering" data-unit="LLM513">MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)</span>

**MASTER OF LAWS BY RESEARCH (LLM(RES))**

School of Law

Master of Laws by Research (LLM(Res))

Course Codes: M1235

Duration: 1.5 years full-time or part-time equivalent; OR 12 months for entrance with Law Honours, or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external) (subject to approval on a case-by-case basis)

Restriction: All graduate courses are subject to restriction.

The LLM (Res) is a research degree designed for students who wish to undertake specialised research in law. All students are required to produce a thesis of up to 60,000 words (including footnotes)(24 points) and complete advanced coursework in research training (12 points).

Students entering the degree with evidence of prior research

training equivalent to AQF Level 8 as exemplified by a Research Honours in Law may be awarded advanced standing for part, or all, of the coursework component. The degree may be completed in one year if advanced standing is obtained for all coursework. Once conferred, LLM (Res) graduates will be assessed on a case-by-case basis and may be considered eligible for admission to Doctor of Philosophy (PhD) candidature.

**Admission Requirements (Onshore):**

To be eligible for admission as a candidate in the 36 point Master of Laws by Research, an applicant must have:

- \* a Bachelor Degree in Law (AQF level 7), or equivalent; or
- \* a Bachelor Degree in a cognate discipline and satisfy the Graduate Research Manager with evidence of significant scholarly or professional attainments which would indicate a capacity to undertake the requirements of the degree.

To be eligible to enter the Masters with advanced standing for the coursework component and be required to complete the thesis only, applicants must have:

- \* a Bachelor Degree with Research Honours (AQF level 8)
- \* a Degree at AQF 8 or above in a cognate discipline and satisfy the Graduate Research Manager with evidence of significant scholarly or professional attainments, which would indicate a capacity to undertake the requirements of the degree.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Special Requirements:**

Students are required to identify an Academic willing and capable to supervise their topic.

**Course Structure - 36 credit points**

All candidates are required to submit a thesis in an approved area of up to 60,000 words including footnotes (24 credit points).

**Coursework - 12 credit points**

**Core Units - 6 credit points**

LLB582 Legal Research Methods for Honours - 3 points  
MURDOCH: H-internal, Y-internal

LLB583 Advanced Supervised Legal Research - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

**Electives - 6 credit points**

Students must choose up to 6 points of credit from any 500 or 600 level electives available. Where possible, students should enrol in units related to their thesis topic and as approved by their supervisor.

Students may enrol in either LLM512 Legal Practice Placement I or LLM513 Legal Practice Placement II as part of their program of study for their electives.

**Thesis - 24 credit points**

LLM700 Master of Laws (Research) - 24 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

**LEADERSHIP, STRATEGY AND INNOVATION**

**EXECUTIVE MASTER IN LEADERSHIP, STRATEGY AND INNOVATION (EMLEADERSHIPSTRATINNOV)**

School of Business and Governance

Executive Master in Leadership, Strategy and Innovation (EMLeadershipStratInnov)



Course Codes: M1253

Duration: 12 months full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- This course is not available to International Students on a Student Visa.

*Restriction: All graduate courses are subject to restriction.*

Prepare to succeed at the top. Your career has seen you lead teams and contribute to a broad range of corporate strategies leading to high performance. This path has made you a high performing manager but there is more you want to accomplish. Focusing on Leadership, Strategy and Innovation, this path-breaking industry-driven program will challenge you to confront the gaps in your knowledge and refine your skills to become a leader at higher levels.

**Admission Requirements (Onshore):**

A recognised degree (in any field) and a minimum of three years supervisory/managerial experience; OR  
A minimum of 10 years of relevant working experience (to be assessed through the Recognition of Prior Learning framework) with a minimum of three years supervisory/managerial experience.

**Admission Requirements (Offshore):**

A recognised degree (in any field) and a minimum of three years supervisory/managerial experience; OR  
A minimum of 10 years of relevant working experience (to be assessed through the Recognition of Prior Learning framework) with a minimum of three years supervisory/managerial experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Main Research Areas:**

Business and Management

**Course Structure - 36 credit points**

**Core Units - 36 credit points**

MBS601 Leadership Dynamics: From Follower to Leader - 3 points  
MURDOCH: T2-internal, T2-external

MBS602 Developing High Performance Work Systems - 3 points  
MURDOCH: T2-internal, T2-external

MBS604 Manager as a Performance Coach - 3 points  
MURDOCH: T2-internal, T2-external

MBS607 Managing Uncertainty Through Scenario Planning - 3 points  
MURDOCH: T3-internal, T3-external

MBS608 Leading from Strategy to Operations - 3 points  
MURDOCH: T3-internal, T3-external

MBS609 Rethinking Strategic Value of Markets and Consumers - 3 points  
MURDOCH: T3-internal, T3-external

MBS613 Managing a Global Business - 3 points

MBS628 Creating Value for Organisations - 3 points

MBS637 Stakeholder Governance in a Business-Society Ecosystem - 3 points

MBS638 International Immersion - 3 points

MBS639 Capstone Consultancy Project - 6 points

## MARKETING

**See also:**

Public Relations

### GRADUATE CERTIFICATE IN INTERNATIONAL MARKETING (GRADCERTIM)

School of Business and Governance

Graduate Certificate in International Marketing (GradCertIM)

Course Codes: C1130

Duration: 6 months part-time

**Availability:**

- Murdoch campus (internal)
- This course is not available to international students studying in Australia on a student visa; it is available to international students on other visas if visa conditions allow.

*Restriction: All graduate courses are subject to restriction.*

Success in a globalised business world depends largely on the ability of organisations to provide the most competitive products and services to satisfy international market needs and outperform competition. The overall goal is to teach students how to develop effective marketing strategies based on the resources available and the market needs in a global competitive environment, to achieve sustainable outcomes for all stakeholders. The course provides conceptual knowledge and practical skills for current and future international marketing managers.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree or higher; or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

This course is aimed at small and medium sized businesses in WA who need qualified people to run their international exporting and importing operations. It is also appropriate for people working in operational and technical jobs to upgrade their international marketing skills to gain promotion and job satisfaction. For example, graduates/employees in the food sector, retailing, mining, fashion, media, IT, distribution, communications, education, entertainment and transport will be able to up skill in international marketing to take advantage of the job opportunities in SE Asia.

**Main Research Areas:**

Marketing, cross-cultural marketing and international strategies

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

MBS573 International Marketing Management - 3 points  
MURDOCH: AU2-internal

MBS574 Strategic Research in International Markets - 3 points  
MURDOCH: SP21-internal

MBS575 Cross-Cultural Consumer Behaviour - 3 points  
MURDOCH: AU2-internal

MBS576 Global Media Communication - 3 points  
MURDOCH: SP21-internal

## MEDIA PRODUCTION

### GRADUATE CERTIFICATE IN MEDIA PRODUCTION (GRADCERTMEDPROD)

School of Arts

Graduate Certificate in Media Production (GradCertMedProd)

Course Codes: C1110

Duration: 1 semester full-time

**Availability:**

- Not currently available to new admissions

*Restriction: All graduate courses are subject to restriction.*

This is a production-based qualification from media or related disciplines, consisting of one semester of full-time study. The focus of the Certificate is on the vocational and applied elements of a discipline - film, radio, television, print, or digital media - through advanced master-classes and hands-on practice with industry professionals. Students in the area of Screen Production will participate in professional shoots attached to industry professionals who fill roles such as producer, director, cinematographer, gaffer, key grip, production designer, sound recordist, etc. This practice is aimed at providing students with valuable on-set experience, training in production crafts, and the opportunity to connect with professionals in the industry. Students are recommended to take a second semester, and attain the higher qualification of a Graduate Diploma.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in media production, or equivalent training, or satisfactory preparation for the course through previous study or professional experience. Extensive production credits may also be considered as an appropriate equivalent entry qualification.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Digital content creation, television, film, video, radio and multimedia production organisations, media and cultural industries, public relations, education, arts management, television journalism, corporate communications, alternative media, and as freelance filmmakers.

**Main Research Areas:**

Media, Communication, Culture, Arts, Sociology.

**Further Study:**

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Media Production.

**Course Structure - 12 credit points**

**Core Units - 12 credit points**

SCR538 Advanced Media Seminars - 6 points

SCR588 Professional Placement in Media Production - 6 points

### GRADUATE DIPLOMA IN MEDIA PRODUCTION (GRADDIPMEDPROD)

School of Arts

Graduate Diploma in Media Production (GradDipMedProd)

Course Codes: G1056

Duration: 1 year full-time

**Availability:**

- Not currently available to new admissions

*Restriction: All graduate courses are subject to restriction.*

This is a production-based qualification from Screen Production or related disciplines, consisting of one-year total full-time study. The focus of this course is in empowering students to transition to the Screen industry as content producers. This is done through intensive master-classes with industry professionals and professional on-set experience with industry mentors. Students will gain experience and knowledge in all key aspects of film-making, but during production can choose to focus on Writing, Producing, Directing, Cinematography, Sound, Editing, or Production Design. At the end of semester, students will apply for a cash funding initiative to support their final production.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in media production, or equivalent training, or satisfactory preparation for the course through previous study or professional experience. Extensive production credits may also be considered as an appropriate equivalent entry qualification.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Digital content creation, television, film, video, radio and multimedia production organisations, media and cultural industries, public relations, education, arts management, television journalism, corporate communications, alternative media, and as freelance filmmakers.

**Main Research Areas:**

Media, Communication, Culture, Arts, Sociology.

**Course Structure - 24 credit points**

**Core Units - 18 credit points**

SCR550 Screen Writing and Development - 3 points

SCR538 Advanced Media Seminars - 6 points

SCR588 Professional Placement in Media Production - 6 points

SCR503 Special Project in Media Production - 3 points

**Specified Electives - 6 credit points**

Select from the following:

SCR510 Advanced Topic in Media Production - 6 points

SCR501 Post Production in Media Production - 6 points

## MIGRATION LAW

### GRADUATE CERTIFICATE IN AUSTRALIAN MIGRATION LAW AND PRACTICE (GRADCERTAUSMIGLAW)

School of Law

Graduate Certificate in Australian Migration Law and Practice (GradCertAusMigLaw)

Course Codes: C1063 C1063A

Duration: 1 semester full time intensive

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Certificate in Australian Migration Law and Practice is an accredited professional training course which fulfils part of the requirements for individuals to become Registered Migration Agents.

The course will expose students to real-life migration problems and improve the practical, problem-solving and interpersonal skills of its participants, enabling them to function effectively in the important and challenging role of a Migration Agent.

#### **Admission Requirements (Onshore):**

All applicants must meet one of the following academic entry requirements:

1) A formal qualification that is recognised as the equivalent of an Australian (AQF Level 7) Bachelor degree; or  
2) Demonstrable evidence of informal and non-formal learning that satisfies the following AQF Level 7 criteria:

- a) Broad and coherent theoretical and technical knowledge with depth in one or more disciplines or areas of practice; and  
b) Well-developed cognitive, technical and communication skills to select and apply methods and technologies to:
- i. Analyse and evaluate information to complete a range of activities;
  - ii. Analyse, generate and transmit solutions to unpredictable and sometimes complex problems;
  - iii. Transmit knowledge, skills and ideas to others; and
- c) Application of knowledge and skills to demonstrate autonomy, well-developed judgement and responsibility:
- i. In contexts that require self-directed work and learning;
  - ii. Within broad parameters to provide specialist advice and functions.

Where there is doubt about whether or not the informal and non-formal learning equates to the above-mentioned AQF Level 7 criteria, applicants can demonstrate the requirements by successfully completing:

- \* the Murdoch University Pre Law course; or
- \* An approved postgraduate preparation program or Pre- Masters course.

Details of the AQF Level 7 criteria can be found at [http://www.aqf.edu.au/wp-content/uploads/2013/05/10AQF\\_Bachelor-Degree.pdf](http://www.aqf.edu.au/wp-content/uploads/2013/05/10AQF_Bachelor-Degree.pdf)

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 6.5.

#### **Professional Recognition:**

Migration Agents' Registration Authority (MARA).

### **Course Structure - 12 credit points**

#### **Core Units - 12 credit points**

LLM502 Australian Migration Law - 3 points  
MURDOCH: UA1-internal

LLM503 Australian Visa System - 3 points  
MURDOCH: AU10-internal

LLM555 Migration Law in Practice - 3 points  
MURDOCH: AU11-internal

LLM504 Visa Compliance, Cancellation and Review - 3 points  
MURDOCH: AU10-internal

## **PLANT BIOSECURITY**

#### **See also:**

Biosecurity

### **GRADUATE CERTIFICATE IN PLANT BIOSECURITY (GRADCERTPLANTBIOSEC)**

School of Veterinary and Life Sciences

Graduate Certificate in Plant Biosecurity (GradCertPlantBiosec)

Course Codes: C1088

Duration: 1 semester full-time (if commencing in Semester 1) or part-time equivalent, depending on unit selection

#### **Availability:**

- Murdoch campus (external)
- International students must commence in Semester 1 only.

Restriction: All graduate courses are subject to restriction.

Biosecurity is a growing field of activity for many professionals involved in agriculture, the environment and international and domestic trade. This growth is driven by the need to maintain agricultural and environmental integrity in a world where, due to ever increasing levels of trade and human movement, exotic plant-affecting organisms pose major and ongoing threats. Biosecurity is central to the management of these threats, with a continuum of activities involving risk analysis, quarantine and surveillance to stop the entry of exotic organisms, rapid emergency response in the event of an exotic incursion, and then the management of pest organisms if they permanently establish and impact on trade.

This course has been developed in consultation with government representatives from Canada, the United States, New Zealand and Australia. Students graduating from the course can do so with the knowledge that their degree will meet the highest level of industry requirement.

#### **Admission Requirements (Onshore):**

A Bachelor's degree or higher, or significant professional experience, in plant biosecurity or a related discipline (for example entomology, plant pathology, quarantine).

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Internet access is required for all students. All material will be flexibly delivered using the latest online technology.

#### **Employment Prospects:**

Graduates will be able to pursue careers in biosecurity, quarantine and pest management, acting in technical, research and administrative roles, with organisations such as the State Departments of Agriculture, State Biosecurity Agencies, Biosecurity Services, Plant Health Australia and private industry, or their international counterparts.

#### **Professional Recognition:**

Graduates will be eligible to apply for membership to societies such as the Australian Entomological Society, the Australian Plant Pathology Society, the Australian Ecological Society, the Australian Institute of Agricultural Science, the Australian Society of Horticultural Sciences and the Australian Society for Risk Analysis.

#### **Further Study:**

Students who successfully complete the Graduate Certificate may apply for admission to the Master of Biosecurity.

### **Course Structure - 12 credit points**

#### **Core Units - 3 credit points**

BIO538 Plant Biosecurity in Practice - 3 points  
MURDOCH: S1-external

#### **Specified Electives - 9 credit points**

Select at least one unit from the following:

BIO537 Plant Biosecurity: Detection and Diagnostics - 3 points  
MURDOCH: S1-external

OTH545 Risk Analysis (University of Adelaide) - 3 points equivalent  
MURDOCH: S2-external

OTH546 Community Engagement (Charles Darwin University SBI401) - 3 points equivalent  
MURDOCH: S2-external

Select from the following:

OTH541 Biosecurity Plant Pests - Invertebrates (University of Queensland) - 3 points equivalent  
MURDOCH: S1-external

OTH542 Biosecurity Plant Pests - Pathogens (La Trobe University BOT5BPP) - 3 points equivalent  
MURDOCH: S1-external

OTH543 Biosecurity Plant Pests - Weeds (University of Adelaide PLANT SC 7023EX) - 3 points equivalent  
MURDOCH: S1-external

## POLICY STUDIES

### GRADUATE CERTIFICATE IN HEALTH ADMINISTRATION, POLICY AND LEADERSHIP (GCHAPL)

Sir Walter Murdoch School of Public Policy and International Affairs

Graduate Certificate in Health Administration, Policy and Leadership (GCHAPL)

Course Codes: C1136

Duration: 6 months full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

Effective leadership and management, as well as an understanding of the economics and governance of health policies, are vital in the health care sector. This course provides a conceptual, strategic and practical toolkit to current and future health sector professionals to enable them to respond innovatively to these challenges.

#### Admission Requirements (Onshore):

A recognised Bachelor degree (or equivalent) in any area.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Health is one of Australia's largest industries, with over 1 million people employed nationally. It is also WA's largest single employment sector. International trends suggest that the increasing demand for executives, managers, professionals, administrators and analysts working in the healthcare industry will require specialised multidisciplinary skills and qualifications in health administration, policy, management, economics, law, epidemiology, informatics and communications. Individuals already in the workforce will increasingly need to develop these skills to progress in their career. It is expected that the main employment prospects for graduates of this course will be in the local, national and international health industry.

#### Main Research Areas:

Health policy, healthcare administration, health economics, health management, health law, public health, leadership

### Course Structure - 12 credit points

#### Core Units - 3 credit points

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

#### Specialisation - 9 credit points

Select from one of the specialisations below. Note: Students may choose units from across specialisations however they will then

not be eligible for recognition of a specialisation on their transcript.

#### Administration and Leadership Specialisation

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

MBS538 Organisational Behaviour and Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Informatics and Analytics Specialisation

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM531 Advanced Topics in Health Informatics and Bioinformatics - 3 points

SWM533 Principles of Health Informatics - 3 points  
MURDOCH: S1-internal, S1-external

#### Policy and Evaluation Specialisation

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

## PSYCHOLOGY

#### See also:

Counselling  
Human Resources and Safety

### GRADUATE DIPLOMA IN CONSULTANCY PSYCHOLOGY (GRADDIPCONSULTPSYCH)

School of Psychology and Exercise Science

Graduate Diploma in Consultancy Psychology (GradDipConsultPsych)

Course Codes: G1057

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course is designed to provide candidates with advanced skills and knowledge in organisational psychology and consulting practice. The course is suitable for individuals who wish to establish themselves as consultants to business and other forms of organisations or work within organisations in consulting relationships. The curriculum combines a range of graduate-level organisational psychology units with elective options drawn from the areas of psychology, counselling and business. Credit for relevant units completed is transferable should a candidate later enrol in the Master of Applied Psychology.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) in any discipline combined with at least one year of relevant work or study experience. Note that some elective units are only available to candidates who have completed four years of study in Psychology or its equivalent.

Equivalent of an Academic IELTS overall score of 7.0 with no band

less than 7.0.

**Employment Prospects:**

Excellent prospects for employment. This course is designed to provide candidates with advanced skills and knowledge in organisational psychology and consulting practice. The course is suitable for individuals who wish to establish themselves as consultants to business and other forms of organisations or work within organisations in consulting relationships.

**Further Study:**

Students who successfully complete the Graduate Diploma may be eligible to apply for admission to the Master of Applied Psychology in Organisational Psychology.

**Course Structure - 24 credit points**

**Core Units - 12 credit points**

PSY568 Human Resources - 3 points  
MURDOCH: S1-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

PSY552 Organisation of Work - 3 points  
MURDOCH: S2-internal

PSY563 Professional Practice and Organisational Consulting - 3 points  
MURDOCH: S1-external

**Specified Electives - 12 credit points**

Select from the following:

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal  
(Only available to students with an accredited four-year Psychology degree or equivalent.)

PSY570 Organisational Psychology: Practicum I - 3 points  
MURDOCH: S2-internal  
(Only available to students with an accredited four-year Psychology degree or equivalent.)

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

Other electives may be taken with the permission of the Academic Chair.

**GRADUATE DIPLOMA IN PSYCHOLOGY  
(GRADDIPPSYCH)**

School of Psychology and Exercise Science

Graduate Diploma in Psychology (GradDipPsych)

Course Codes: G1058

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Psychology provides a fourth year of study in Psychology for graduates who already have completed an accredited three-year undergraduate degree in Psychology. The Diploma thus assists people who wish to meet the minimum educational qualification requirements for registration to work as a psychologist. Students in the Diploma must complete coursework at an advanced level as well as a group-based research project written up as a thesis.

**Admission Requirements (Onshore):**

A three-year Bachelor's degree in Psychology accredited by the Australian Psychology Accreditation Council or Australian Psychological Society-approved alternative, completed within the last 10 years. Some students may be required to complete additional units to satisfy specified unit prerequisites.

The Academic Chair will consider applications and recommend students for admission based on an assessment of the student's preparedness to cope with the Graduate Diploma in Psychology, and on current teaching resources available to the school. Normally only students with a credit average or better in their undergraduate psychology units will be considered. In some cases, the Academic Chair may recommend a student for admission, but require the student to complete additional designated Murdoch units offered in earlier years than the fourth year.

Quota: The number of students accepted into the course will be determined on a semester-by-semester basis, and will depend upon available resources.

Applications: The application process will coincide with that of all other graduate degrees offered in the School of Psychology and Exercise Science, with close-off dates for the applications occurring approximately one month before the beginning of the following semester.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

**Employment Prospects:**

Students who complete this Diploma will have satisfied the minimum educational requirements for registration to work as a psychologist in Western Australia (provided that their undergraduate degree is from an accredited psychology program), and will also be eligible to apply for entry into relevant Master courses in applied psychology. Graduates will be able to work in many areas of psychology and the helping professions.

**Professional Accreditation:**

The course is fully accredited by the Australian Psychology Accreditation Council (APAC), and is recognised as such by the Australian Psychological Society (APS) and the Western Australian Psychologists' Registration Board.

**Course Structure - 24 credit points**

**Core Units - 24 credit points**

PSY541 Psychology Project - 12 points  
MURDOCH: H-internal, Y-internal

PSY599 Graduate Seminar in Psychology - 3 points  
MURDOCH: S1-internal

PSY598 Advanced Psychological Assessment - 3 points  
MURDOCH: S1-internal

PSY536 Psychology: Principles and Processes of Psychological Intervention - 3 points  
MURDOCH: S2-internal

PSY544 Psychology: Practical Skills - 3 points  
MURDOCH: S2-internal

## MASTER OF APPLIED PSYCHOLOGY (CLINICAL PSYCHOLOGY) (MAPPPSYCH)

School of Psychology and Exercise Science

Master of Applied Psychology (MAppPsych) (Clinical Psychology)

Course Codes: M1156

Duration: 2 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This professionally-accredited course adheres to a scientist-practitioner model which stresses a systematic problem-solving approach. Its objective is to prepare psychologists who are skilled in individual casework and can apply their skills and knowledge to prevention, research, development, and evaluation at the individual and system levels.

The course consists of two years of full-time study or may be undertaken on a part-time basis over not more than eight years. The course includes coursework, practicum, and research components which will qualify them as clinical psychologists at Master's degree level.

Candidates undertake at least three approved placements. The University cooperates with the Commonwealth and State Public Services, such as the Department of Health, Department for Community Development, Department of Justice, Disability Services Commission, WA Police Service and other public and private services and facilities in Western Australia to provide practicum opportunities. Candidates must include at least one placement in an adult clinical facility and one in a child clinical facility; two of these placements must be external to the University.

### Admission Requirements (Onshore):

Entry to this course is very competitive and requires a recognised and accredited Bachelor of Arts degree (or Bachelor of Science degree) with at least 2A Honours in Psychology or its equivalent (for example an average Distinction level in a Bachelor of Psychology or Postgraduate/Graduate Diplomas in Psychology). Applicants will also need to supply referee reports and a personal statement that details their past accomplishments, future plans, and interests in the graduate psychology program for which they have applied as part of the admission process.

Students with overseas qualifications who are accepted into the course and who wish to seek registration in Australia after graduation should ensure that their undergraduate qualifications meet the requirements of the relevant psychology registration board for equivalence to a four-year Australian degree in Psychology. Applications with qualifications obtained outside Australia must have a formal assessment completed by the Australian Psychological Society before submitting an application for study.

The admission process includes both application and interview.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

### Special Requirements:

Graduate students must be registered from the start of their higher degree as a provisional psychologist. Within the first two weeks of commencing the program, the student must gain provisional registration with Psychology Board of Australia. As many agencies require all staff working with their clients or patients to have a police clearance, applicants are required to obtain a Federal police clearance (which will include WA clearance). In addition, a working with children check by the Department of Child Protection is required. Clearly any agency will only be seeking information about

behaviours that may place vulnerable clients at risk and will not be interested in any other type of behaviours. The applicant meets the cost of these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these records if required.

### Employment Prospects:

Job prospects for psychologists are very good; employment growth is expected to be strong following recent government initiatives. On graduation from this course, students will be highly employable in a wide variety of areas, including private practice as a registered psychologist, and working in various public and private sector agencies in areas such as health, community development, justice, education, and disabilities.

### Professional Recognition:

This course is fully accredited by the Australian Psychology Accreditation Council (APAC), and is recognised as such by the Australian Psychological Society (APS) and the Psychology Board of Australia (PBA).

### Main Research Areas:

The Murdoch program has a focus on translational clinical research to support the development of research active scientist-practitioners.

### Admission to Doctor of Psychology and combined MAppPsych/PhD:

Students who complete the first year of the Master of Applied Psychology may apply to transfer to the Doctor of Psychology and will be exempt from the units already completed which are common to both degrees. During their first year of study, students may also apply for enrolment in a PhD and if accepted may enter the combined MAppPsych/PhD course.

### Other Facilities and Services:

Murdoch University has both a specialist child psychology clinic and an adult psychology clinic to act as a practical training facility.

### Admission from MAppPsych (Professional) course:

Successful applicants who have completed the Master of Applied Psychology (Professional) course at Murdoch University may apply to the Academic Chair to have some of their coursework and practicum units credited toward the first year of study for the MAppPsych (Clinical) course.

## Course Structure - 48 credit points

Candidates must normally successfully complete the following units to meet Registration and Specialist Entitlement requirements for Clinical Psychologists.

### Year 1 - 24 credit points

#### Core Units - 24 credit points

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY537 Clinical Psychology: Internal Practicum (Child, Youth and Family) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

PSY538 Clinical Psychology: Internal Practicum (Adult) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

PSY664 Clinical Psychology: Working with Children and Families - 3 points  
MURDOCH: S1-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

PSY567 Clinical Psychology: Developmental Disabilities - 3 points  
MURDOCH: S2-internal

PSY669 Psychotherapy in Practice - 3 points  
MURDOCH: Y-internal

PSY502 Clinical Psychology: Working with Health Problems - 3 points  
MURDOCH: S2-internal

## Year 2 - 24 credit points

### Core Units - 24 credit points

PSY655 Psychology: Advanced Research Methods - 2 points  
MURDOCH: Y-internal

PSY690 Applied Psychology Dissertation - 10 points  
MURDOCH: S1-internal, S2-internal, Y-internal

PSY604 Clinical Psychology: External Practicum - 12 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

---

## MASTER OF APPLIED PSYCHOLOGY (ORGANISATIONAL PSYCHOLOGY) (MAPPPSYCH)

School of Psychology and Exercise Science

Master of Applied Psychology (MAppPsych) (Organisational Psychology)

Course Codes: M1157

Duration: 2 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This professionally-accredited course adheres to a scientist-practitioner model which stresses a systematic problem-solving approach. Its objective is to prepare psychologists who are skilled in individual casework and can apply their skills and knowledge to prevention, research, development, and evaluation at the individual, organisational and system levels.

The course consists of two years of full-time study or may be undertaken on a part-time basis over not more than eight years. The course includes coursework, practicum, and research components. Candidates will cover core and optional aspects in their course, which will qualify them as organisational psychologists at Master's degree level.

Candidates undertake at least three approved placements. The University cooperates with the Commonwealth and State Public Services, such as the Department of Health, Department of Consumer and Employment Protection, Department for Community Development, Department of Justice, Education Department of Western Australia, Disability Services Commission, WA Police Service and other public and private services and facilities in Western Australia. Experience in other community psychological areas such as rehabilitation and social service is also available. Candidates must complete four placements, three of which must be conducted in external public or private organisations.

### Admission Requirements (Onshore):

Entry to the program is very competitive and to be accepted into the course applicants must have successfully completed a four year, or three year plus a fourth year, APAC-accredited sequence in psychology, within the last 10 years, with an upper second class Honours (2A) or equivalent overall mark, and be eligible for registration with the psychologist Registration Board as a conditional/provisional psychologist. An exception to this may be made for currently registered psychologists who can demonstrate current compliance with Registration Board CPD requirements.

Students with overseas qualifications who are accepted into the course must ensure that their undergraduate qualifications meet the requirements of the psychology registration board for equivalence to a four-year APAC Accredited Australian degree in Psychology in order to be registered from the start of their higher degree as a provisional psychologist. Applications with qualifications obtained outside Australia must have a formal assessment completed by the Australian Psychological Society before submitting an application for study.

The admission process includes both application and interview.

In order to gain admission to this program, students must satisfy the Psychology Board of Australia English requirements by demonstrating competency in the English Language. For more details on this, see <http://www.psychologyboard.gov.au/Registration/Overseas-Applicants.aspx>

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

### Special Requirements:

Graduate students must be registered from the start of their higher degree as a provisional psychologist with the Psychology Board of Australia within the first two weeks of commencing the program. As many agencies require all staff working with their clients or patients to have a police clearance, applicants are required to obtain a Federal police clearance (which will include WA clearance). In addition, if working with children a separate screening by the Department of Community Development is required. Clearly any agency will only be seeking information about behaviours that may place vulnerable clients at risk and will not be interested in any other type of behaviours. The applicant meets the cost of these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these records if required.

### Employment Prospects:

Job prospects for applied organisational psychologists are very good; employment growth is expected to reflect the strength of the economy. On graduation from this course, students will be highly employable as a registered psychologist working in various public agencies and across a wide variety of private sectors.

### Professional Recognition:

The course is fully accredited by the Australian Psychology Accreditation Council (APAC), and is recognised as such by the Australian Psychological Society (APS) and the Psychology Board of Australia (PBA). Graduates will be eligible for direct registration as psychologists with the Psychology Board of Australia.

### Admission to Doctor of Psychology and combined MAppPsych/PhD:

Students who complete the first year of the Master of Applied Psychology may apply to transfer to the Doctor of Psychology and will be exempt from the units already completed which are common to both degrees. During their first year of study, students may also apply for enrolment in a PhD and if accepted may enter the combined MAppPsych/PhD course.

### Other Facilities and Services:

Murdoch University has both a specialist child psychology clinic and an adult psychology clinic and the organisational Psychology Consulting Service to act as practical training facilities and community services.

### Admission from MAppPsych (Professional) course:

Successful applicants who have completed the Master of Applied Psychology (Professional) course at Murdoch University may apply to the Academic Chair to have some of their coursework and practicum units credited toward the first year of study for the

MAppPsych (Organisational) course.

### Course Structure - 48 credit points

University regulations require completion of a minimum of 24 points at 600-level and a maximum of 24 points at 500-level for a 48-point Masters by Coursework degree.

Candidates must normally successfully complete the following units to meet Registration and Specialist Entitlement requirements for Organisational Psychologists.

#### Year 1 - 24 credit points

##### Core Units - 21 credit points

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY570 Organisational Psychology: Practicum I - 3 points  
MURDOCH: S2-internal

PSY563 Professional Practice and Organisational Consulting - 3 points  
MURDOCH: S1-external

PSY568 Human Resources - 3 points  
MURDOCH: S1-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

PSY552 Organisation of Work - 3 points  
MURDOCH: S2-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

##### Specified Electives - 3 credit points

Select from the following:

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

An Independent Study Contract at 500/600 level - 3 points

Other electives with the permission of the Academic Chair.

#### Year 2 - 24 credit points

##### Core Units - 24 credit points

PSY655 Psychology: Advanced Research Methods - 2 points  
MURDOCH: Y-internal

PSY690 Applied Psychology Dissertation - 10 points  
MURDOCH: S1-internal, S2-internal, Y-internal

PSY603 Organisational Psychology: Practicum II - 12 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

## MASTER OF APPLIED PSYCHOLOGY (PROFESSIONAL) (MAPPPSYCH(PROFESSIONAL))

School of Psychology and Exercise Science

Master of Applied Psychology (Professional) (MAppPsych(Professional))

Course Codes: M1238

Duration: 1 year full-time

#### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This course adheres to a scientist-practitioner model that stresses a systematic problem-solving approach. Its objective is to prepare psychologists who are skilled in individual casework and can apply their skills and knowledge to prevention, research, development, and evaluation at the individual and system levels.

The course consists of one year of full-time study. No part-time study is possible with this course. It includes coursework, practicum and research components. Entry to the course is very competitive and requires a recognised and accredited Bachelor of Arts degree (or Bachelor of Science degree) with at least 2A Honours in Psychology or its equivalent (e.g. an average Distinction level in a Bachelor of Psychology or Postgraduate/Graduate Diploma in Psychology/Bachelor of Psychology with evidence of an additional 6 months FTE of relevant experience).

Candidates undertake two practicums. This may include seeing clients within the University clinics or may include a workplace internship practicum by arrangement with the practicum coordinator.

#### Admission Requirements (Onshore):

Entry to the program is very competitive and requires a recognised and accredited Bachelor of Arts degree (or Bachelor of Science degree) with at least 2A Honours in Psychology or a Postgraduate/Graduate Diploma in Psychology. Applicants will also need to supply referee reports and a personal statement that details their past accomplishments, future plans, and interests in the graduate psychology program. Interviews will be offered to the best candidates. Students with overseas qualifications who are accepted into the course and who wish to seek registration in Australia after graduation should ensure that their undergraduate qualifications meet the requirements of the relevant psychology registration board for equivalence to a four-year Australian degree in Psychology with at least 2A Honours.

Applications with qualifications obtained outside Australia must have a formal assessment completed by the Australian Psychological Society before submitting an application for study.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### Special Requirements:

Graduate students must be registered from the start of their higher degree as a provisional psychologist. Within the first two weeks of commencing the course, the student must gain provisional registration with Psychology Board of Australia. As many agencies require all staff working with their clients or patients to have a police clearance, applicants are required to obtain a Federal police clearance (which will include WA clearance). In addition, if working with children a separate Working with Children Check is required. Clearly any agency will only be seeking information about behaviours that may place vulnerable clients at risk and will not be interested in any other type of behaviours. The applicant meets the cost of these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these records if required.



**Employment Prospects:**

Job prospects for psychologists are very good; employment growth is expected to be strong following recent government initiatives. On graduation from this course, students will be highly employable in a wide variety of areas, including private practice after meeting registration requirements, and working in various public and private sector agencies in areas such as health, community development, justice, education, and disabilities.

**Professional Accreditation:**

This course is accredited by the Australian Psychology Accreditation Council (APAC).

**Main Research Areas:**

A range of research projects in professionally relevant areas will be available under the supervision of academic staff.

**Other Facilities and Services:**

The School of Psychology and Exercise Science has three clinics in which students may complete their practicum: an adult psychology clinic; a specialist child psychology clinic and a sport and exercise science clinic.

**Course Structure - 24 credit points****Core Units - 18 credit points**

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY669 Psychotherapy in Practice - 3 points  
MURDOCH: Y-internal

PSY664 Clinical Psychology: Working with Children and Families - 3 points  
MURDOCH: S1-internal

PSY6551 Psychology: Advanced Research Methods - 3 points  
MURDOCH: Y-internal

PSY610 Professional Psychology: Research Project - 3 points  
MURDOCH: Y-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

Select from the following:

PSY601 Professional Psychology: Practicum 1 (Pre-Clinical) - 3 points  
MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

PSY602 Professional Psychology: Practicum 2 (Pre-Clinical) - 3 points  
MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement

PSY605 Professional Psychology: Practicum 1 (Professional) - 3 points  
MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

PSY606 Professional Psychology: Practicum 2 (Professional) - 3 points  
MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement

PSY607 Professional Psychology: Practicum 1 (Workplace Internship) - 3 points  
MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

PSY608 Professional Psychology: Practicum 2 (Workplace Internship) - 3 points  
MURDOCH: S2-placement, SUM-placement, U-placement,

Y-placement

---

**MASTER OF APPLIED PSYCHOLOGY +  
DOCTOR OF PHILOSOPHY  
(MAPPPSYCH+PHD)**

School of Psychology and Exercise Science

Master of Applied Psychology (MAppPsych) + Doctor of Philosophy (PhD)

Course Codes: D1067 M1156 M1157

Duration: 4 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

This combined course is offered to students wishing to combine professional training at Master's level in Clinical or Organisational Psychology with compatible research at the PhD level. It combines a thorough professional training in the chosen area of specialisation with the high level of research training associated with doctoral-level studies.

The course allows students to fulfil the requirements of both the relevant Masters degree and the PhD. Students who have a strong academic record demonstrating particular strength in their area of research may be considered for entry.

Candidates will normally complete the full first year of the Masters course before going on to enrol in the PhD for the second, third and fourth years. Students are exempted from the Masters thesis requirement and normally complete a 12-point external placement unit concurrently with the PhD commitment. Whilst candidates are advised to complete the first year of the Masters course in advance of beginning the PhD, it is possible to begin with the latter.

There are two Masters courses available: in Clinical Psychology and in Organisational Psychology. Coursework is selected and placements organised according to the area of specialisation. The topic of the PhD must relate to the area of specialisation.

This professionally accredited course adheres to a scientist-practitioner model which stresses a systematic problem-solving approach. Its objective is to prepare psychologists who are skilled in individual casework and can apply their skills and knowledge to prevention, research, development, and evaluation at the individual, organisational and system levels. It is a professional qualification in Applied Psychology leading to employment in the health, educational, occupational, ergonomic and community areas, which meets international standards. The course also develops students to be expert researchers in their chosen area of specialisation.

**Admission Requirements (Onshore):**

Entry to the program is very competitive and to be accepted into the course applicants must have successfully completed a four year, or three year plus a fourth year, APAC-accredited sequence in psychology, within the last 10 years, with an upper second class Honours (2A) or equivalent overall mark, and be eligible for registration with the Psychology Board of Australia as a conditional/provisional psychologist. An exception to this may be made for currently registered psychologists who can demonstrate current compliance with Registration Board CPD requirements.

Students with overseas qualifications who are accepted into the course must ensure that their undergraduate qualifications meet the requirements of the relevant psychology registration board for equivalence to a four-year Australian degree in Psychology in order to be registered from the start of their higher degree as a provisional psychologist. Applications with qualifications obtained

outside Australia must have a formal assessment completed by the Australian Psychological Society before submitting an application for study. In order to gain admission to this program, students must satisfy the Psychology Board of Australia English requirements by demonstrating competency in the English Language. For more details on this, see <http://www.psychologyboard.gov.au/Registration/Overseas-Applicants.aspx>

Applicants must apply simultaneously for entry to both the MAppPsych and the PhD. Unsuccessful applicants for both courses may still be considered for entry to either course on its own. Candidates enrolled in the first year of the MAppPsych may apply for transfer into this course. The admission process includes both application and interview.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 7.0.

#### **Special Requirements:**

Graduate students must be registered from the start of their higher degree as a provisional psychologist. Within the first two weeks of commencing the program, the student must gain provisional registration with the Psychology Board of Australia. As many agencies require all staff working with their clients or patients to have a police clearance, students are required to obtain a Federal police clearance (which will include WA clearance) if accepted into the course. In addition, if working with children a separate screening by the Department of Community Development is required. Clearly any agency will only be seeking information about behaviours that may place vulnerable clients at risk and will not be interested in any other types of behaviour. The student must meet the cost of obtaining these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these records if required.

#### **Employment Prospects:**

On graduation from this course, students will be highly employable in a wide variety of areas, including private practice as a registered psychologist, and working in various public and private sector agencies in areas such as health, community development, justice, education, and disabilities.

#### **Professional Recognition:**

The course is fully accredited by the Australian Psychology Accreditation Council (APAC), and is recognised as such by the Australian Psychological Society (APS) and the Psychology Board of Australia (PBA). Graduates will be eligible for direct registration as psychologists with the Psychology Board of Australia.

#### **Other Facilities and Services:**

Murdoch University has both a specialist child Psychology Clinic and an adult Psychology Clinic and the Organisational Psychology Consulting Service to act as practical training facilities and community services.

---

## **Clinical Psychology**

### **Course Structure - 96 credit points**

#### **First Year - 24 credit points**

##### **Core Units - 24 credit points**

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY664 Clinical Psychology: Working with Children and Families - 3 points  
MURDOCH: S1-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

PSY502 Clinical Psychology: Working with Health Problems - 3

points

MURDOCH: S2-internal

PSY567 Clinical Psychology: Developmental Disabilities - 3 points  
MURDOCH: S2-internal

PSY669 Psychotherapy in Practice - 3 points  
MURDOCH: Y-internal

PSY537 Clinical Psychology: Internal Practicum (Child, Youth and Family) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

PSY538 Clinical Psychology: Internal Practicum (Adult) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

#### **Second, Third and Fourth Years**

Students are required to enrol concurrently in PSY755 Psychology: Advanced Research Methods with their first enrolment in PSY920 Research Studies -- Psychology.

PSY920 Research Studies -- Psychology

PSY755 Psychology: Advanced Research Methods - 0 points  
MURDOCH: Y-internal

PSY604 Clinical Psychology: External Practicum - 12 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

---

## **Organisational Psychology**

### **Course Structure - 96 credit points**

#### **First Year - 24 credit points**

##### **Core Units - 21 credit points**

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY568 Human Resources - 3 points  
MURDOCH: S1-internal

PSY570 Organisational Psychology: Practicum I - 3 points  
MURDOCH: S2-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

PSY563 Professional Practice and Organisational Consulting - 3 points  
MURDOCH: S1-external

PSY552 Organisation of Work - 3 points  
MURDOCH: S2-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

##### **Specified Electives - 3 credit points**

Select from the following:

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

#### **Second, Third and Fourth Years**

Students must enrol in PSY755 Psychology: Advanced Research Methods concurrently with their first enrolment in PSY920 Research Studies -- Psychology.

PSY920 Research Studies -- Psychology

PSY755 Psychology: Advanced Research Methods - 0 points  
MURDOCH: Y-internal

PSY603 Organisational Psychology: Practicum II - 12 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

---

## **DOCTOR OF PSYCHOLOGY (CLINICAL PSYCHOLOGY) (DPSYCH)**

School of Psychology and Exercise Science

Doctor of Psychology (DPSych)

Course Codes: D1073

Duration: 3 and a half years full-time or part-time equivalent

### **Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Doctor of Psychology (Clinical Psychology) (DPSych) at Murdoch is a Graduate Research Degree and is also recognised as an AQF Level 10 qualification, meaning that it is recognised as a Doctoral degree (Professional) and an equivalent level of qualification to a Ph.D. A Professional Doctoral Degree is defined as a research focussed qualification which makes a significant and original contribution to knowledge in the context of professional practice. Professional programs of study at a doctoral level combine professional accreditation as a Clinical psychologist via a program of structured learning with a comprehensive research program undertaken over at least two years of the qualification. The Doctor of Psychology can be completed in an intensive three and a half year program. The degree consists of seminars, supervised practical work and applied research components. The course content of the first year of study is the same as Year 1 of the Master of Applied Psychology. The DPSych offers both direct entry and entry after completion of the first year of the Master of Applied Psychology. Those with marks of distinction may apply for transfer to the DPSych. The DPSych also contains advanced level teaching of practice relevant skills in complex clinical skills and in translational research methods such as program evaluation and practice oriented systematic literature review. The teaching staff are highly experienced Clinical Psychologists with extensive research programs linking into the School's translational research clinics. Murdoch University has a range translational clinics with opportunities to work with both adults, children and families. In addition, the University cooperates with Commonwealth and State Public Service Ministries and Departments such as Department for Community Development, Justice, Health, the Disability Services Commission and other public and private services and facilities in Western Australia to provide practicum opportunities. The School's external clinical placement networks are extensive and are approved by the School Committee.

### **Admission Requirements (Onshore):**

There are two modes of entry to the DPSych program.

- 1) For direct entry to the DPSych, applicants should hold a four year sequence of study in an APAC-accredited Psychology program with the equivalent of a 2A honours degree in Psychology. These students will commence the coursework component of the DPSych and complete the same units as students undertaking the Master of Applied Psychology (Clinical) for the first year of the program.
- 2) Students who complete the first year of the relevant Master of Applied Psychology and who average grades of Distinction in their core first year units may apply for transfer to the DPSych. Applicants for the DPSych are required to submit a synopsis of their intended research and the name of a supervisor on the staff of the University

as part of their application.

Applicants will be required to present their research plans to a panel of Psychology staff prior to admission. Students permitted to transfer from the Master of Applied Psychology will be exempt from the units common to both degrees.

Applicants who hold the equivalent of the relevant Master of Applied Psychology can apply for entry and are to complete the balance of units in the DPSych. A maximum of 36 points of credit may be granted to those applicants who have completed equivalent coursework. In some circumstances, the degree may be undertaken on a part-time basis but requires attendance of on-campus seminars and, for parts of the course, full-day attendance on campus or at a practicum site.

English competence. International students demonstrating English competence via IELTS need a score of 7.0, with no individual band less than 7.0 in reading and writing and no band below 7.5 in speaking and listening.

### **Special Requirements:**

Graduate students must be registered from the start of their higher degree as a provisional psychologist. Within the first two weeks of commencing the program, the student must gain provisional registration with Psychology Board of Australia. As many agencies require all staff working with their clients or patients to have a police clearance, students are required to obtain a Federal police clearance (which will include WA clearance) if accepted into the course. Successful applicants also need to have a Working with Children Check before they begin work in the internal clinic. Clearly any agency will only be seeking information about behaviours that may place vulnerable clients at risk and will not be interested in any other type of behaviours. The student meets the cost of these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these documents if required.

### **Professional Recognition:**

Australian Psychology Accreditation Council (APAC), and approval by the relevant Colleges of the Australian Psychological Society (APS).

### **International Student Admission:**

International students can seek direct entry into the DPSych program. Prospective International students should be aware that like most Universities in Australia, Murdoch requires international applicants to complete a formal assessment of their qualifications by the Australian Psychological Society. The APS will provide a letter indicating the equivalent year level for an overseas qualification in terms of the Australian sequence. This letter should accompany the student's application to Murdoch. International students will require equivalence to an Australian 4th year level of qualification. The APS website suggests that the approximate processing time for applications to assess international qualifications is 8 weeks. The student's academic performance within a 4th year equivalent year of study will be assessed within the Murdoch application process and must be at least at a Honours 2A level or equivalent. Students seeking to apply for Murdoch postgraduate psychology programmes will only require an assessment conducted by the APS. Students do NOT need an assessment from the Psychology Board of Australia to apply for the course. However, students will need to pursue provisional registration with the Psychology Board of Australia following acceptance and enrolment in the course. Evidence of enrolment is sufficient to apply for provisional registration with the Psychology Board of Australia.

### **Course Structure - 84 credit points**

Candidates must normally successfully complete the following units to meet Registration and Specialist Entitlement requirements for Clinical Psychologists.

### **Year 1 - 24 credit points**

6

**Core Units - 24 credit points**

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY537 Clinical Psychology: Internal Practicum (Child, Youth and Family) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

PSY538 Clinical Psychology: Internal Practicum (Adult) - 3 points  
MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

PSY669 Psychotherapy in Practice - 3 points  
MURDOCH: Y-internal

PSY664 Clinical Psychology: Working with Children and Families - 3 points  
MURDOCH: S1-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

PSY567 Clinical Psychology: Developmental Disabilities - 3 points  
MURDOCH: S2-internal

PSY502 Clinical Psychology: Working with Health Problems - 3 points  
MURDOCH: S2-internal

6

**Year 2 and Onward - 60 credit points****Core Units - 60 credit points**

Students must enrol in PSY755 Psychology: Advanced Research Methods concurrently with their first enrolment in PSY700 Doctor of Psychology Thesis

PSY755 Psychology: Advanced Research Methods - 0 points  
MURDOCH: Y-internal

PSY700 Doctor of Psychology Thesis - 48 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

Full-time students should enrol in this unit for 12 points for each of four semesters and part-time students should enrol in 6 points for each of eight semesters or until submission of the thesis.

PSY703 Doctor of Psychology (Clinical): Research Integrated Practicum I - 6 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

PSY704 Doctor of Psychology (Clinical): Research Integrated Practicum II - 6 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

---

**DOCTOR OF PSYCHOLOGY  
(ORGANISATIONAL PSYCHOLOGY)  
(DPSYCH)**

School of Psychology and Exercise Science

Doctor of Psychology (DPSych)

Course Codes: D1063

Duration: 3 and a half years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Doctor of Psychology is an intensive three and a half year professional research degree consisting of seminars, supervised practical work and applied research.

The first year of study is the same as Year 1 of the relevant Master

of Applied Psychology (MAppPsych). Students who complete the first year of the Master of Applied Psychology with marks of distinction may apply for transfer to the DPSych. The specific purpose of the DPSych is to enable students to undertake applied Doctoral-level research on a topic of their choice which will make a distinct contribution to the profession whilst gaining skills in applied psychology to meet registration requirements, and to pursue specialised study in their chosen professional area.

All of the teaching staff are practising Applied Psychologists. Murdoch University has the Psychology Clinic, the Counselling Psychology Consulting Service and the Organisational Psychology Consulting Service to act as practical training facilities and community services. In addition, the University cooperates with Commonwealth and State Public Service Ministries and Departments such as Department for Community Development, Justice, Employment, Health, Safety and Welfare, Education, the Disability Services Commission and other public and private services and facilities in Western Australia.

**Admission Requirements (Onshore):**

Applicants for the DPSych are required to submit a research proposal and the name of a supervisor on the University staff with their application. Applicants will be required to present their research to a panel prior to admission. Applicants should hold a four year sequence of study in an APAC accredited program with the equivalent of a 2A honours degree in Psychology. Students with overseas qualifications need to ensure that their undergraduate qualifications are equivalent to a four-year APAC Accredited Australian degree in Psychology. Applications with qualifications obtained outside Australia must have a formal assessment completed by the Australian Psychological Society before submitting an application for study.

Applicants who hold the equivalent of the relevant APAC Accredited Master of Applied Organisational Psychology are to complete the balance of units in the DPSych. A maximum of 36 points of credit may be granted to those applicants who have completed equivalent coursework. The degree may be undertaken on a part-time basis but requires attendance of on-campus seminars and, for parts of the course, full-day attendance on campus or at a practicum site.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Special Requirements:**

Graduate students must be registered from the start of their higher degree as a provisional psychologist with the Psychology Board of Australia within the first two weeks of commencing the program. As many agencies require all staff working with their clients or patients to have a police clearance, students are required to obtain a Federal police clearance (which will include WA clearance) if accepted into the course. Clearly any agency will only be seeking information about behaviours that may place vulnerable clients at risk and will not be interested in any other type of behaviours. The student meets the cost of these clearances. Please note that some organisations providing professional placements require students to provide full immunisation records. Applicants must be in a position to provide these documents if required.

Students must also:

Attend 6 advanced workshops outlined below including the Psychology Board of Australia's approved supervision training. These do not count towards practicum placement hours.

- 1) Conflict Management and Negotiation in the Workplace
- 2) Influence in the Workplace
- 3) Applied Project Management Part 1 (1 day)
- 4) Applied Project Management Part 2 (1 day)
- 5) PRINCE2 Foundation Certification Course (3 days) and Applied PRINCE2 (1 day)
- 6) Supervisor Training Workshop (1 day).

**Professional Recognition:**

Australian Psychology Accreditation Council (APAC), and approval by the relevant Colleges of the Australian Psychological Society (APS).

**Course Structure - 84 credit points**

Candidates must normally successfully complete the following units to meet Registration and Specialist Entitlement requirements for Organisational Psychologists.

**Year 1 - 24 credit points****Core Units - 21 credit points**

PSY662 Psychological Assessment: Theory and Method - 3 points  
MURDOCH: Y-internal

PSY570 Organisational Psychology: Practicum I - 3 points  
MURDOCH: S2-internal

PSY563 Professional Practice and Organisational Consulting - 3 points  
MURDOCH: S1-external

PSY568 Human Resources - 3 points  
MURDOCH: S1-internal

PSY612 Work and Well-being - 3 points  
MURDOCH: S2-internal, S2-external

PSY552 Organisation of Work - 3 points  
MURDOCH: S2-internal

PSY565 Clinical Psychology: Working with Adults - 3 points  
MURDOCH: S1-internal

**Specified Electives - 3 credit points**

Select from the following:

MBS539 Accounting for Managers - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

MBS537 Strategic Marketing Management - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MBS546 Business Finance - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

An Independent Study Contract at 500/600 level - 3 points

Other electives with the permission of the Academic Chair.

**Year 2 and Onward - 60 credit points****Core Units - 60 credit points**

Students must enrol in PSY755 Psychology: Advanced Research Methods concurrently with their first enrolment in PSY700 Doctor of Psychology Thesis.

PSY755 Psychology: Advanced Research Methods - 0 points  
MURDOCH: Y-internal

PSY700 Doctor of Psychology Thesis - 48 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

Full-time students should enrol in this unit for 12 points for each of four semesters and part-time students should enrol in 6 points for each of eight semesters or until submission of the thesis.

PSY701 Doctor of Psychology (Organisational): Practicum I - 6 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

PSY702 Doctor of Psychology (Organisational): Practicum II - 6 points  
MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

**PUBLIC POLICY AND MANAGEMENT****MASTER OF PUBLIC POLICY AND MANAGEMENT (MPPM)**

Sir Walter Murdoch School of Public Policy and International Affairs

*Master of Public Policy and Management (MPPM)*

Course Codes: M1194

Duration: 2 years full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

The Master of Public Policy and Management (MPPM) equips students with the strategic, analytical and professional skills for a career in the government, non-profit, and private sectors both in Australia and internationally. It provides students with the knowledge and skills to analyse, design and implement policy in complex institutional and regulatory environments. The core units of the program cover public policy theory and practice, governance and public administration, public sector management, policy research and evaluation, and introductory economics.

**Admission Requirements (Onshore):**

Admission to the Master degree is available to students who have a Bachelor degree in any area.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Suitable for students looking to work in the public sector, the not-for-profit sector and for professionals who work at the intersection between government and business.

**Advanced Standing:**

A student's advanced standing is assessed at the time of application, taking into account level of higher study and/or professional experience.

Up to 12 points (0.5 year) of advanced standing is available to students with:

- \* A Bachelor degree with a major in a cognate discipline to the Masters course
- \* Or, a Bachelor degree in an unrelated discipline and a Graduate Certificate or Diploma in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline
- \* Or, a Bachelor degree in an unrelated discipline and two years of relevant, documented professional experience

Up to 24 points (1 year) of advanced standing is available to students with:

- \* An Honours degree or equivalent in a cognate discipline to the Masters course
- \* Or, an Honours degree or equivalent in an unrelated discipline and at least two years of relevant documented professional experience

**Course Structure - 48 credit points**

**Core Units - 21 to 30 credit points****Theory - 18 credit points**

SWM649 Public Policy and International Affairs Foundations - 6 points  
MURDOCH: S1-internal

SWM613 Public Policy Perspectives - 6 points  
MURDOCH: S1-internal

SWM651 Comparative Governance and Public Administration - 3 points  
MURDOCH: S2-internal

SWM629 Thinking and Reasoning Economically - 3 points  
MURDOCH: S1-internal

**Capstone Experience - 3 to 12 credit points**

Select one of the following options:

EITHER

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM617 Supervised Research Thesis - 6 points  
MURDOCH: S1-internal, S2-internal  
This 10,000-12,000 word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs.

OR

SWM618 Social Science Research Design - 3 points  
MURDOCH: S1-internal

and

SWM6171 Supervised Research Thesis - 9 points  
MURDOCH: S1-internal, S2-internal  
This 12,000 - 15,000-word thesis can only be taken with the approval of the Dean of the Sir Walter Murdoch School of Public Policy and International Affairs.

OR

SWM619 Research Internship - 6 points  
MURDOCH: S1-internal, S2-internal

Students may wish to use this unit (SWM619) to undertake In-Country Studies Indonesia - a 6 point program run during the summer period by ACICIS. Students interested in this option should consult the Capstone Coordinator for application and enrolment information.

Students undertaking an extended internship of 12 weeks/500 hours for 12 points should enrol in SWM619 Research Internship and

SWM6191 Internship Professional Placement - 6 points  
MURDOCH: S2-internal

OR

SWM620 Supervised Case Study Project - 3 points  
MURDOCH: S1-internal, S2-internal, W-internal

**Specified Electives - 18 to 27 credit points**

Select from the following lists or from core units not already selected:

**Professional**

SWM532 Financial Management Decision Making - 3 points  
MURDOCH: S1-internal, S1-external

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

MBS687 Effective Leadership - 3 points  
Not available this year

MBS555 Human Resource Management Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

MBS651 Leading and Managing Nonprofit Organisations - 3 points  
MURDOCH: SP17-internal, SP17-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

SWM519 Strategic Health Leadership and Management - 3 points  
MURDOCH: W-internal, W-external

TLC501 Communication Skills for Postgraduate Study - 3 points  
MURDOCH: S1-internal, S2-internal

**Policy**

SWM645 Public Sector Economics - 3 points

SWM515 Public Sector Management - 3 points  
MURDOCH: S1-internal

SWM516 Policy Research and Evaluation - 3 points  
MURDOCH: S2-internal

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

SWM611 States, Social Forces and Development - 6 points  
MURDOCH: S2-internal

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

SWM646 Parliamentary Democracy - 3 points

SWM517 Health Policy and Governance - 3 points  
MURDOCH: S1-internal, S1-external

SWM518 Health Economics and Finance - 3 points  
MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

SWM648 Corruption, Anti-corruption and its Discontents - 3 points  
MURDOCH: S2-internal

SWM647 Cultural and Communications Policy - 3 points  
MURDOCH: S2-internal

SWM612 Global Governance, Security and Economy - 6 points  
MURDOCH: S2-internal

SWM652 Private Sector and Development - 3 points  
Not available this year

SWM635 Security, Conflict and Violence - 3 points  
MURDOCH: S2-internal

SWM511 Critical Approaches to Development - 3 points  
MURDOCH: S1-internal

PSY609 Changing Behaviour in Policy and Practice: The Psychology of Influence - 3 points  
Not available this year

**Language**

Students may take up to two language units in either Indonesian or Japanese. Placement in language units is at the discretion of the Academic Chair, following an assessment of the student's language skills. There may be restrictions for students completing the Masters in 24 points. Please refer to the Handbook for available units in Indonesian or Japanese.

## RELIGION

### MASTER OF CHAPLAINCY (MCHAP)

School of Arts

Master of Chaplaincy (MChap)

Course Codes: M1258

Duration: 2 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (all but one unit)

Restriction: All graduate courses are subject to restriction.

Caring for the spiritual needs of people in a variety of life situations has become increasingly important in contemporary society. As a result, chaplains are now found in schools, hospitals, prisons, aged care, and many work places. This qualification provides an excellent academic and practical foundation for meeting the challenges of working as a chaplain across a range of contexts, and provides the opportunity for in-depth research on a specialised area of interest.

#### Admission Requirements (Onshore):

Completion of a recognised Bachelor's degree (AQF Level 7) in any discipline.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Schools, hospitals, prisons, aged care, and many work places.

#### Main Research Areas:

Spirituality, pastoral care, rituals, religious and cultural demographics, ethics, theological foundations

### Course Structure - 48 credit points

#### Core Units - 39 credit points

THE505 Thinking Theology - 3 points  
MURDOCH: S1-internal, S1-external

THE528 Spirituality - 3 points  
MURDOCH: S1-internal, S1-external

THE512 Pastoral Practicum - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

THE513 Chaplaincy in Theory and Practice - 3 points  
MURDOCH: S2-internal, S2-external

THE624 Ethics - 3 points  
MURDOCH: S2-external

THE627 Understanding Religion in Australian Society - 3 points  
MURDOCH: S1-internal, S1-external

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

OR

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external

THE645 Pastoral Care - 3 points  
MURDOCH: S1-internal, S1-external

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

ART610 Masters by Coursework Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external,

S2-internal, S2-external, Y-internal, Y-external

#### Specified Electives - 9 credit points

Select from the following:

THE626 Advanced Pastoral Practicum - 3 points  
MURDOCH: S1-external, S2-external

THE511 Teaching Religion in Schools - 3 points  
Not available this year

THE506 Introduction to the Old Testament - 3 points  
MURDOCH: S1-internal, S1-external

COD545 Community Development Theory and Practice - 3 points  
MURDOCH: S1-internal, S1-external

THE507 Introduction to the New Testament - 3 points  
MURDOCH: S2-internal, S2-external

THE509 Turning Points in Church History - 3 points  
MURDOCH: S1-internal, S1-external

THE510 Emerging Christian Theology: The Creeds (100-500 CE) - 3 points  
MURDOCH: S2-internal, S2-external

## RESEARCH DEGREES - GENERAL

#### See also:

Education

Law

Psychology

### MASTER OF PHILOSOPHY (MPHIL)

No Specific School

Master of Philosophy (MPhil)

Course Codes: M1260 M1261

Duration: 2 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)
- Mandurah campus (internal)
- Mandurah campus (external)
- Rockingham campus (internal)
- Rockingham campus (external)

Restriction: All graduate courses are subject to restriction.

The Master of Philosophy (MPhil) is an internationally recognised graduate research degree that involves undertaking a significant research project. It is a supervised research program involving the independent research of a specific topic under the guidance of a supervisor. Students are required to provide a thesis that demonstrates their capacity for critical analysis and application of specialist knowledge. The MPhil program provides students with an opportunity to develop and enhance their analytical and research skills through independent investigation in a specific field. The candidate must undertake an original investigation which would normally be more limited in scope and degree of originality than a PhD. Many MPhil students choose to continue with their research in order to obtain a PhD. Likewise, some PhD students elect to finish early with an MPhil.

Students are required to produce a thesis no more than 60,000 words.

Graduate research offers an opportunity for you to develop a research project that fascinates you and acquire critical thinking and research skills that will transform the way you see the world. The process of completing your thesis means you have exciting opportunities to:

- \* Make an original contribution to human knowledge.

- \* Work with and be challenged by top academics and experts in your field, as well as attending national and international conferences.
- \* Experience the joy of spending several years exploring a research topic you're passionate about.
- \* Gain knowledge and critical thinking skills that will change the way you see the world.

Candidature for research degrees is offered in all Schools. The University encourages research in interdisciplinary areas as well as in the basic disciplines.

For further information on Graduate Research Degrees, see the Future Research Students web site:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

#### **Admission Requirements (Onshore):**

To be eligible for admission as a candidate for the Master of Philosophy (MPhil), an applicant must have:

- \* a Bachelor Degree with at least a 2A Honours (AQF level 8); or
- \* a Bachelor Degree (AQF level 7), and satisfy the Manager of Graduate Research with evidence of significant scholarly or professional attainments providing satisfactory research preparation equivalent to AQF level 8.

#### **Admission Requirements (Offshore):**

Remote candidates should generally spend a period of at least six months (not necessarily continuously) at the University during their candidature and a library, and any other facilities necessary for graduate research, must be available at the student's location. Applications are considered individually on their own merits.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Special Requirements:**

Applicants for part-time study must submit a statement that they will be able to devote a minimum of 15 hours per week to their research in each year of their candidature. Full-time students must devote at least 37.5 hours per week on average to research.

Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

Some students propose to carry out research in the course of their current employment. The conditions of this kind of enrolment must be agreed by the research candidate, their employer and the Research Degrees and Scholarships Committee.

Before you apply for admission to a graduate research project at Murdoch University, you will need to write a research proposal. For the best chance of being accepted, you should also find and nominate a potential supervisor.

Given the amount of time and effort you'll be investing in your research, it's important that your research topic inspires you and will keep you motivated throughout your research journey. Here is a step-by-step guide to help you develop your research proposal and find a supervisor:  
<http://www.murdoch.edu.au/Research-capabilities/Future-research-students/Your-research-project/>

#### **Employment Prospects:**

When you complete a research degree at Murdoch University, you'll do much more than write a thesis. You'll develop a whole range of new skills including critical thinking, researching and writing, and experience being published, teaching and presenting in domestic and international conferences. These skills are transferable across any industry, so after graduating you could find yourself in any number of academic or non-academic roles, in the private or public sector.

#### **Professional Recognition:**

This is an internationally recognised graduate research degree that involves undertaking a significant research project.

#### **Intake Periods:**

You can apply for research degrees at any time during the year. Degrees that are comprised solely of a research project can be commenced at any time.

#### **Scholarships:**

Scholarships are available for both domestic students and international students. Financial assistance can include tuition fees, living allowances and even international travel awards. See the future research students web site for more details:  
<http://www.murdoch.edu.au/Research-capabilities/Future-research-students/Admission-and-scholarships/>

### **Course Structure - 48 credit points**

For further information on Graduate Research Degrees, see the future research students website:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

---

## **RESEARCH MASTERS (WITH TRAINING)**

No Specific School

Master of [fieldname]

Course Codes: M1262 M1263

Duration: 1.5 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Mandurah campus (internal)
- Mandurah campus (external)
- Rockingham campus (internal)
- Rockingham campus (external)

*Restriction: All graduate courses are subject to restriction.*

Candidature for research degrees is offered in all Schools. The University encourages research in interdisciplinary areas as well as in the basic disciplines.

The Research Masters (with Training) is an 18-month full-time (or three years part-time) degree designed for students for whom additional, or specialised, research training is desirable. It is designed for:

- \* Industry professionals who seek to extend and deepen their research expertise
- \* Professionals and others interested in undertaking research relevant to their professional field
- \* Those hoping to proceed to higher degrees but lacking in the conventional background.

Students are required to produce a thesis no more than 60,000 words. Once conferred, RMT graduates will be assessed on a case-by-case basis and may be considered eligible for admission to Doctor of Philosophy (PhD) candidature.

For further information on Graduate Research Degrees, see the Future Research Students web site:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

#### **Admission Requirements (Onshore):**

To be eligible for admission as a candidate for a Research Masters with Training (RMT), an applicant must:

- \* have a Bachelor Degree in the same or cognate discipline (AQF



level 7) and satisfy the Manager with evidence of professional attainments relevant to the proposed research discipline; or

\* have a Bachelor Degree in a different discipline (AQF level 7) and:

a) have successfully completed a graduate course in the same discipline requiring at least one year of equivalent full-time study (AQF level 8); or

b) satisfy the Manager of Graduate Research with evidence of professional attainments (of at least two years' full-time duration or equivalent) relevant to the proposed research discipline; or  
\* satisfy the Manager of Graduate Research with evidence of significant scholarly or professional attainments equivalent to AQF level 8.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Special Requirements:**

Applicants for part-time study must submit a statement that they will be able to devote a minimum of 15 hours per week to their research in each year of their candidature.

Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

Before you apply for admission to a graduate research project at Murdoch University, you will need to write a research proposal. For the best chance of being accepted, you should also find and nominate a potential supervisor.

Given the amount of time and effort you'll be investing in your research, it's important that your research topic inspires you and will keep you motivated throughout your research journey. Here is a step-by-step guide to help you develop your research proposal and find a supervisor:

<http://www.murdoch.edu.au/Research-capabilities/Future-research-students/Your-research-project/>

#### **Intake Periods:**

You can apply for research degrees at any time during the year. Students who have received credit for the coursework component of the RMT and their degree is comprised solely of a research project, can commence at any time. Students who are required to complete the coursework component will need to commence at the start of the relevant semester.

### **Course Structure - 36 credit points**

Candidates undertake 12 points of graduate coursework units in their research area. Units should relate to the area of research and be discussed with supervisors. A satisfactory outcome must be achieved in those units before a candidate is allowed to progress to their research thesis (24 credit points).

For further information on Graduate Research Degrees, see the Future Research Students website:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

## **DOCTOR OF PHILOSOPHY (PHD)**

No Specific School

Doctor of Philosophy (PhD)

Course Codes: D1067 D1068

Duration: 4 years full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Murdoch campus (external)
- Mandurah campus (internal)
- Mandurah campus (external)
- Rockingham campus (internal)
- Rockingham campus (external)

*Restriction: All graduate courses are subject to restriction.*

The Doctor of Philosophy (PhD) involves students independently researching a specific topic under the guidance of a supervisor. The aim of the PhD is to foster the development of independent research skills including the capacity to formulate a problem, develop mastery of appropriate conceptual and methodological skills to address it, and relate the research topic to a broader framework of knowledge in a relevant discipline. Research involves critical inquiry designed to further human knowledge. Students are required to produce a thesis no more than 100,000 words, with the research representing a significant new contribution to the discipline.

Graduate research offers an opportunity for you to develop a research project that fascinates you and acquire critical thinking and research skills that will transform the way you see the world. The process of completing your thesis means you have exciting opportunities to:

- \* Make an original contribution to human knowledge.
- \* Work with and be challenged by top academics and experts in your field, as well as attending national and international conferences.
- \* Experience the joy of spending several years exploring a research topic you're passionate about.
- \* Gain knowledge and critical thinking skills that will change the way you see the world.

Candidature for research degrees is offered in all Schools. The University encourages research in interdisciplinary areas as well as in the basic disciplines.

For further information on Graduate Research Degrees, see the Future Research Students web site:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

#### **Admission Requirements (Onshore):**

To be eligible for admission as a candidate for a Doctor of Philosophy (PhD), an applicant must:

- \* have a Bachelor Degree with at least a 2A Honours (AQF level 8); or
- \* have a Masters Degree (AQF level 9) which incorporates satisfactory research preparation equivalent to at least 12 credit points; or
- \* be enrolled as a Master of Philosophy (MPhil) candidate in the University (AQF level 9) and satisfy the Manager with evidence of the ability to complete a Doctoral Degree (Research) successfully (AQF level 10) within the enrolment period specified in Regulation 29;
- or
- \* have a Bachelor Degree (AQF Level 7) and satisfy the Manager of Graduate Research with evidence of substantive and significant scholarly or professional attainments providing satisfactory research preparation equivalent of AQF level 8 or 9.

#### **Admission Requirements (Offshore):**

Remote candidates should generally spend a period of at least six months (not necessarily continuously) at the University during their candidature. A library, and any other facilities necessary for graduate research, must be available at the student's location. Applications are considered individually on their own merits.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Special Requirements:**

Applicants for part-time study must submit a statement that they will be able to devote a minimum of 15 hours per week to their research in each year of their candidature. Full-time students must devote at least 37.5 hours per week on average to research.

Internet access is required for students studying externally; exceptions will be considered on a case-by-case basis.

Some students propose to carry out research in the course of their current employment. The conditions of this kind of enrolment must be agreed by the research candidate, their employer and the Research Degrees and Scholarships Committee.

Before you apply for admission to a graduate research project at Murdoch University, you will need to write a research proposal. For the best chance of being accepted, you should also find and nominate a potential supervisor.

Given the amount of time and effort you'll be investing in your research, it's important that your research topic inspires you and will keep you motivated throughout your research journey. Here is a step-by-step guide to help you develop your research proposal and find a supervisor:  
<http://www.murdoch.edu.au/Research-capabilities/Future-research-students/Your-research-project/>

#### **Professional Recognition:**

This is an internationally recognised graduate research degree that involves undertaking a significant research project.

#### **Intake Periods:**

You can apply for research degrees at any time during the year. Degrees that are comprised solely of a research project can be commenced at any time.

#### **Scholarships:**

Scholarships are available for both domestic students and international students. Financial assistance can include tuition fees, living allowances and even international travel awards. See the future research students web site for more details:  
<http://www.murdoch.edu.au/Research-capabilities/Future-research-students/Admission-and-scholarships/>

### **Course Structure - 96 credit points**

For further information on Graduate Research Degrees, see the future research students website:  
<http://goto.murdoch.edu.au/FutureResearchStudents>

## **SAFETY SCIENCE**

### **GRADUATE DIPLOMA IN SAFETY SCIENCE**

School of Engineering and Information Technology

*Graduate Diploma in Safety Science*

Course Codes: G1078

Duration: 1 year full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal)
- Some units only: Murdoch campus (external) (all but one unit)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Safety Science is based on the scientific-practitioner model. It provides an understanding into areas covering engineering and psychology principles relevant to safety. It is particularly appropriate for those currently working in industry where further knowledge in safety is desired. It is intended for those who are practicing, or intend to be practicing in Occupational Safety & Health (OSH). Admission requirements are a minimum bachelor's level degree in a cognate discipline or equivalent industry experience. Enrolment is also open to graduates from other disciplines who are interested in understanding process safety, fire and explosion safety, psychometric assessment, organisational culture, psychosocial hazards, human factors, management of change and Environmental Assessment and Risk Management. It will also provide the graduate with the requisite

coursework to undertake subsequent higher post-graduate degree courses.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) in the environmental or chemical engineering discipline. Students with recognised prior learning in other disciplines or practice are also eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Candidates are assumed to have some prior knowledge and must have passed the following units at Murdoch or their equivalent elsewhere:

MAS221 Mathematical Modelling (desirable)

ENG201 Fluid Mechanics (desirable)

CHE144 Foundations of Chemistry (essential)

PEN152 Principles of Physics (essential)

ENG203 Heat Transfer (desirable)

#### **Employment Prospects:**

The Safety Science Diploma holders can find employment in industrial or government organisations as safety professionals in a managerial OSH role, which requires a minimum Graduate Diploma level degree.

#### **Professional Recognition:**

Safety Institute of Australia

#### **Main Research Areas:**

The physics and engineering of safety, social policy and organisational aspects; the assessment, management and communication of risks; the effectiveness of control and management techniques for safety; standardisation, legislation, inspection.

### **Course Structure - 24 credit points**

#### **Core Units - 24 credit points**

ENG520 Chemical Process Safety - 3 points

MURDOCH: S1-internal, S1-external

ENG519 Electrical Safety - 3 points

MURDOCH: S2-internal, S2-external

BIO639 Global Biosecurity - 3 points

MURDOCH: S1-internal, S1-external

OR

ENV557 Environmental Assessment and Management - 3 points

MURDOCH: S1-internal, S1-external

PSY563 Professional Practice and Organisational Consulting - 3 points

MURDOCH: S1-external

PSY552 Organisation of Work - 3 points

MURDOCH: S2-internal

ENG518 Fire and Explosion Safety - 3 points

MURDOCH: S2-internal, S2-external

SHP501 Safety and Quality in Health Care - 3 points

MURDOCH: S1-external, S2-external

OR

ENV558 Environmental Monitoring - 3 points

MURDOCH: S2-internal, S2-external

PSY612 Work and Well-being - 3 points

MURDOCH: S2-internal, S2-external

## SUSTAINABILITY

### MASTER OF SUSTAINABLE DEVELOPMENT (MSUSTDEV)

School of Business and Governance

Master of Sustainable Development (MSustDev)

Course Codes: M1214

Duration: 2 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Master of Sustainable Development takes a holistic approach, providing students with the knowledge and skills that are particularly relevant for a wide range of sustainability careers within local, state or federal government, businesses and NGOs. The course addresses the implementation of sustainability at local, regional and global levels, and within urban and rural areas, and a wide range of organisations. Students have the opportunity to explore cutting-edge sustainability practices and policy relating to such areas as energy, water use, waste, climate change, biodiversity, urban planning and land management, international development, and sustainability education.

The Core module provides a sophisticated understanding of some of the most important dimensions of Sustainable Development practice, including: sustainability issues and implementation at the global, regional and local levels; urban and regional sustainability; climate change adaptation, sustainability education; and sustainability and international development within Asia. Within this Core module, each student is given an opportunity to build their professional resume by undertaking a career-relevant internship or practical project for academic credit.

Professional Electives enable students to acquire professional skills in areas including: project management, community development and strategic communication.

Policy Electives give students an opportunity to develop specialised expertise in areas such as: environmental impact assessment, energy policy, GIS, and environmental management, policy and law.

Finally, the course concludes with a Capstone program that gives students the opportunity to deepen their knowledge and research skills by undertaking a Research Dissertation (that could qualify students seeking admission to a PhD) or a Research Project.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF Level 7) or higher, or equivalent training, though not necessarily in an area directly related to the proposed course, or satisfactory preparation through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

This course aims to develop the skills, knowledge and professional acumen needed for sustainable development leadership within international and Australian businesses, government agencies, and non-government organisations. Students acquire expertise in innovative sustainability practices, as well as high-level research training and professional development. During the course, each student is given an opportunity to build their professional resume

by undertaking a career-relevant internship or practical project for academic credit. The course brings together high-achieving students and industry practitioners from many different parts of the world and harnesses their unique skill-sets through team projects and other forms of interactive learning. Part of the course's magic come from the networking and ideas exchange that take place when tomorrow's sustainable development leaders come together in this dynamic environment.

#### Nested Awards:

Students taking the Master of Sustainable Development can opt for an early exit with the Graduate Certificate in Sustainable Development subject to satisfying course requirements.

### Course Structure - 48 credit points

#### Core Units - 33 or 42 credit points

##### Theory - 27 credit points

SUS512 Sustainability, Ecology and Communities - 3 points  
MURDOCH: S1-internal, S1-external

SUS523 Cities and Sustainability - 3 points  
MURDOCH: S1-internal, S1-external

COD505 Mining, Communities and Sustainability - 3 points  
MURDOCH: S2-internal, S2-external

SUS532 Sustainable Development Internship Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH: SUM-internal (quota of 10 places), SUM-external, U-internal (quota of 10 places), U-external</span>

AST650 Culture, Communities and Sustainability in Asia - 3 points  
MURDOCH: S1-internal, S1-external

ENV536 Engaging with a Sustainable Future - 3 points  
MURDOCH: S2-internal, S2-external

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points  
MURDOCH: S2-internal, S2-external

#### Capstone Experience - 6 or 15 credit points

Select one of the following two options:

ART610 Masters by Coursework Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

and

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

ART6401 Masters by Coursework Research Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

#### Specified Electives - 6 or 15 credit points

Students completing ART610 Masters by Coursework Research Dissertation and ART604 Advanced Research Methods are required to complete two units from the lists of electives below.

Students completing ART6401 Masters by Coursework Research Project are required to complete five (5) units from the lists below, at least three (3) of which must be at 600-level.

#### Professional Electives

MBS685 Project Management - 3 points  
MURDOCH: S1-internal, W-internal, W-external

MBS687 Effective Leadership - 3 points  
Not available this year

MBS651 Leading and Managing Nonprofit Organisations - 3 points  
MURDOCH: SP17-internal, SP17-external

SWM621 Ethics and Global Justice - 3 points  
Not available this year

### Policy Electives

ENV556 Principles of Environmental Impact Assessment - 3 points  
MURDOCH: S1-internal, S1-external

ENV552 Comparative Environmental Policy and Law - 3 points  
MURDOCH: S1-internal

PEN591 Energy Policy - 3 points  
MURDOCH: S2-internal, S2-external

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

## 6

## TERTIARY AND ADULT EDUCATION

*See also:*  
Education

### GRADUATE CERTIFICATE IN TERTIARY AND ADULT EDUCATION (GRADCERTTERADED)

School of Education

*Graduate Certificate in Tertiary and Adult Education (GradCertTerAdEd)*

Course Codes: C1025

Duration: 1 year part-time (due to unit availability)

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

The Graduate Certificate in Tertiary and Adult Education is designed for people who are interested in the education of adults in a variety of contexts. e.g. university lecturers and tutors, private and public (TAFE) RTO lecturers, nurse educators, adult literacy teachers, community adult educators, corporate and industry trainers and HR personnel. The course provides an introduction to the concepts, theories and practice of adult education and provides a pathway into the Diploma and Master of Education (MEd) qualifications. Successful completion of the Graduate Certificate in Tertiary and Workplace Education provides formal recognition of an adult education qualification against Standards for Registered Training Organisations (RTOs) 2015 (Standard 1, Clause 1.16.)

#### Admission Requirements (Onshore):

A recognised Bachelor degree (AQF Level 7) or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode.

#### Employment Prospects:

Graduates from this course have formal postgraduate qualification in adult education and training in a wide range of contexts including; TAFE and vocational education and training (VET), university lecturing and tutoring, corporate and workplace training,

HR training and management.

#### Professional Accreditation:

N/A

#### Professional Recognition:

Graduate Certificate in Tertiary and Adult Education is recognised as an adult learning teaching qualification in accordance with the Standards for Registered Training Organisations (RTOs) 2015.

#### Further Study:

Students who successfully complete the Graduate Certificate may apply for admission to the Graduate Diploma in Education (Tertiary and Workplace), or the Masters of Education (Coursework).

#### Advanced Standing:

Students who have completed other relevant qualifications or a staff development or induction program for tertiary teaching should consult with the Accreditation Officer about the exemptions available.

### Course Structure - 12 credit points

#### Core Units - 6 credit points

EDN540 Facilitating Lifelong Learning - 6 points  
MURDOCH: S1-internal, S1-external

#### Specified Electives - 6 credit points

EDN544 Tertiary and Adult Education Policy - 3 points  
MURDOCH: S2-internal, S2-external

EDN588 Curriculum Development for Practitioners - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

### GRADUATE DIPLOMA IN EDUCATION (TERTIARY AND WORKPLACE) (GRADDIPED)

School of Education

*Graduate Diploma in Education (GradDipEd)*

Course Codes: G1025

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

This course is designed for people who are interested in the education of adults (e.g. university lecturers or tutors, technical college lecturers, nurse educators, adult literacy teachers, community adult educators, industrial training officers).

#### Admission Requirements (Onshore):

A recognised Bachelor degree (AQF Level 7) or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

This course provides development for the professional role of a lecturer, adult educator, facilitator, professional development facilitator, instructor or professional trainer.

#### Advanced Standing:

Students who have completed other relevant qualifications or a staff development or induction program for tertiary teaching should consult with the Accreditation Officer about the exemptions

available.

### Course Structure - 24 credit points

#### Core Units - 15 credit points

EDN540 Facilitating Lifelong Learning - 6 points  
MURDOCH: S1-internal, S1-external

EDN544 Tertiary and Adult Education Policy - 3 points  
MURDOCH: S2-internal, S2-external

EDN588 Curriculum Development for Practitioners - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

EDN541 Practical Methods of Instruction - 3 points  
MURDOCH: S1-internal, S1-external

#### Specified Electives - 9 credit points

All students must complete at least one Specified Elective unit at 500 level. Select from the following:

EDN618 Professional Development Portfolio - 3 points  
MURDOCH: S1-external

EDN671 Mentoring - 3 points  
MURDOCH: UA4-internal

EDN546 Dynamics of Cultural Diversity in the Workplace and the Community - 3 points  
MURDOCH: S1-internal

EDN519 International Education: Issues and Practices - 3 points  
MURDOCH: S2-internal, S2-external

EDU616 Teaching, Learning and Working in Culturally Diverse Environments - 3 points  
MURDOCH: S1-external

EDU615 Learning and Teaching with ICT - 3 points  
MURDOCH: S2-external

EDU645 Adult Learning in Education and Work - 3 points  
MURDOCH: S2-external

EDU610 Introduction to Research for Educators - 6 points  
MURDOCH: S1-internal, S1-external, S2-external

EDU511 Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills and Research - 3 points  
<span data-type="offering" data-unit="EDU511">MURDOCH: SB7-internal (closed as the offering has reached capacity)</span>

EDN556 Teaching Second/Foreign Languages - 3 points  
MURDOCH: S1-internal, S1-external

EDN575 Opportunities with e-learning - 3 points  
<span data-type="offering" data-unit="EDN575">MURDOCH: W-internal (quota of 30 places)</span>

## THEOLOGY

### GRADUATE CERTIFICATE IN THEOLOGY (GRADCERTTHEOL)

School of Arts

Graduate Certificate in Theology (GradCertTheol)

Course Codes: C1124

Duration: 1 year part-time

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Graduate Certificate in Theology provides a basic theological

grounding for teachers in religious schools and staff in church agencies. It is also an excellent way for those with a general interest in Theology to obtain an introduction to the key areas of theological inquiry. The course introduces students to biblical studies, methods of theological construction, and the history of Christianity.

#### Admission Requirements (Onshore):

A recognised Bachelors degree (AQF level 7) or higher.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Course Structure - 12 credit points

#### Core Units - 12 credit points

THE505 Thinking Theology - 3 points  
MURDOCH: S1-internal, S1-external

THE506 Introduction to the Old Testament - 3 points  
MURDOCH: S1-internal, S1-external

THE507 Introduction to the New Testament - 3 points  
MURDOCH: S2-internal, S2-external

THE509 Turning Points in Church History - 3 points  
MURDOCH: S1-internal, S1-external

## GRADUATE DIPLOMA IN CHAPLAINCY (GRADDIPCHAP)

School of Arts

Graduate Diploma in Chaplaincy (GradDipChap)

Course Codes: G1067

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

Caring for the spiritual needs of people in a variety of life situations has become increasingly important in contemporary society. As a result, chaplains are now found in schools, hospitals, prisons, aged care, and many work places. This qualification provides an excellent academic and practical foundation for meeting the challenges of working as a chaplain across a range of contexts.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree (AQF level 7) in any discipline.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Employment opportunities include chaplaincy in schools, hospitals, prisons, aged care, and other work places.

### Course Structure - 24 credit points

#### Core Units - 18 credit points

THE505 Thinking Theology - 3 points  
MURDOCH: S1-internal, S1-external

THE528 Spirituality - 3 points  
MURDOCH: S1-internal, S1-external

THE512 Pastoral Practicum - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

THE513 Chaplaincy in Theory and Practice - 3 points  
MURDOCH: S2-internal, S2-external

THE627 Understanding Religion in Australian Society - 3 points

MURDOCH: S1-internal, S1-external

THE624 Ethics - 3 points

MURDOCH: S2-external

### Specified Electives - 12 credit points

Select from the following:

#### Specified Electives - 6 credit points

THE511 Teaching Religion in Schools - 3 points

Not available this year

THE506 Introduction to the Old Testament - 3 points

MURDOCH: S1-internal, S1-external

THE507 Introduction to the New Testament - 3 points

MURDOCH: S2-internal, S2-external

THE509 Turning Points in Church History - 3 points

MURDOCH: S1-internal, S1-external

THE510 Emerging Christian Theology: The Creeds (100-500 CE) - 3 points

MURDOCH: S2-internal, S2-external

COD545 Community Development Theory and Practice - 3 points

MURDOCH: S1-internal, S1-external

MURDOCH: S2-internal, S2-external

### Specified Electives - 9 credit points

Select from the following units, with at least 3 points at 500 level.

THE528 Spirituality - 3 points

MURDOCH: S1-internal, S1-external

THE645 Pastoral Care - 3 points

MURDOCH: S1-internal, S1-external

THE624 Ethics - 3 points

MURDOCH: S2-external

THE625 Christology - 3 points

Not available this year

THE620 Old Testament Exegesis - 3 points

MURDOCH: S2-internal, S2-external

THE621 New Testament Exegesis: Gospels - 3 points

MURDOCH: S1-internal, S1-external

THE622 Globalisation of Modern Christianity - 3 points

MURDOCH: S1-internal, S1-external

THE623 Britain and the Reformation Era - 3 points

Not available this year

THE619 Triune God - 3 points

MURDOCH: S2-internal, S2-external

THE511 Teaching Religion in Schools - 3 points

Not available this year

## 6

### GRADUATE DIPLOMA IN THEOLOGY (GRADDIPTHEOL)

School of Arts

*Graduate Diploma in Theology (GradDipTheol)*

Course Codes: G1050

Duration: 1 year full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Theology provides substantial theological grounding for teachers in religious schools and staff in church agencies. It is also an excellent way for those with a general interest in Theology to obtain a significant foundation in the key areas of theological inquiry. The course introduces students to biblical studies, methods of theological construction, and the history of Christianity. Students are then able to develop their knowledge further in these areas through the selection of appropriate electives.

#### Admission Requirements (Onshore):

A recognised Bachelors degree (AQF level 7) or higher.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Course Structure - 24 credit points

#### Core Units - 15 credit points

THE506 Introduction to the Old Testament - 3 points

MURDOCH: S1-internal, S1-external

THE507 Introduction to the New Testament - 3 points

MURDOCH: S2-internal, S2-external

THE505 Thinking Theology - 3 points

MURDOCH: S1-internal, S1-external

THE509 Turning Points in Church History - 3 points

MURDOCH: S1-internal, S1-external

THE510 Emerging Christian Theology: The Creeds (100-500 CE) - 3 points

points

### MASTER OF DIVINITY (MDIV)

School of Arts

*Master of Divinity (MDiv)*

Course Codes: M1207

Duration: 3 years full-time or part-time equivalent

#### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course explores one of the world's oldest learning disciplines and immerses students in the history, beliefs and practices of the Christian tradition. In this three-year course, students will explore history, literature, social sciences and philosophy to gain an in-depth understanding of how the Christian tradition has developed and its meaning and value today. Students will study units in Biblical Studies, Church History, Systematic Theology and Practical Theology.

#### Admission Requirements (Onshore):

Recognised Bachelor's degree in any discipline. Consideration will be given to previous studies in Theology for possible advanced standing of up to 24 points of credit toward the Master of Divinity.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### Employment Prospects:

Students in Theology training for ordained ministry are selected by their respective churches. In addition teachers in church schools need to do some Theology. Other employment prospects exist as church youth workers and chaplains in government schools.

#### Professional Recognition:

This course is a professional qualification for ministry. When completed in conjunction with prescribed Church requirements, it is a recognised university qualification in Western Australia for ordination in the Anglican Church of Australia and the Uniting

Church of Australia.

**Unit Selection:**

The Coursework option of the Master of Divinity is appropriate for those who wish to study for a professional qualification as the academic component of preparation for ordination. It is also the best option for those seeking broad knowledge of the range of theological disciplines. The Research option is appropriate for those who wish to specialise in one or more specific areas of Theology, particularly those who may wish to progress to a higher degree by research.

**Course Structure - 72 credit points**

**Year 1 - 24 credit points**

**Core Units - 18 credit points**

- THE506 Introduction to the Old Testament - 3 points  
MURDOCH: S1-internal, S1-external
- THE507 Introduction to the New Testament - 3 points  
MURDOCH: S2-internal, S2-external
- THE505 Thinking Theology - 3 points  
MURDOCH: S1-internal, S1-external
- THE509 Turning Points in Church History - 3 points  
MURDOCH: S1-internal, S1-external
- THE528 Spirituality - 3 points  
MURDOCH: S1-internal, S1-external
- THE510 Emerging Christian Theology: The Creeds (100-500 CE) - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 6 credit points**

- REL207 Biblical Hebrew I - 3 points  
MURDOCH: S1-internal
  - REL208 Biblical Hebrew II - 3 points  
MURDOCH: S2-internal
  - REL209 New Testament Greek I - 3 points  
Not available this year
  - REL210 New Testament Greek II - 3 points  
Not available this year
  - THE513 Chaplaincy in Theory and Practice - 3 points  
MURDOCH: S2-internal, S2-external
  - THE511 Teaching Religion in Schools - 3 points  
Not available this year
  - COD545 Community Development Theory and Practice - 3 points  
MURDOCH: S1-internal, S1-external
- or select from any other 500-level unit in the School of Arts with the Academic Chair's approval.

**Coursework Option - 48 credit points**

**Year 2 - 24 credit points**

**Core Units - 24 credit points**

- THE620 Old Testament Exegesis - 3 points  
MURDOCH: S2-internal, S2-external
- THE621 New Testament Exegesis: Gospels - 3 points  
MURDOCH: S1-internal, S1-external
- THE615 Worship and Liturgy - 3 points  
Not available this year
- THE625 Christology - 3 points  
Not available this year
- THE623 Britain and the Reformation Era - 3 points  
Not available this year

THE663 Church, Ministry and Sacraments - 3 points  
Not available this year

THE618 Homiletics - 3 points  
Not available this year

THE617 Advanced Biblical Interpretation Seminar - 3 points  
Not available this year

**Year 3 - 24 credit points**

**Core Units - 24 credit points**

- THE620 Old Testament Exegesis - 3 points  
MURDOCH: S2-internal, S2-external
- THE621 New Testament Exegesis: Gospels - 3 points  
MURDOCH: S1-internal, S1-external
- THE622 Globalisation of Modern Christianity - 3 points  
MURDOCH: S1-internal, S1-external
- THE619 Triune God - 3 points  
MURDOCH: S2-internal, S2-external
- THE645 Pastoral Care - 3 points  
MURDOCH: S1-internal, S1-external
- THE614 Apologetics - 3 points  
Not available this year
- THE616 History of Missions - 3 points  
MURDOCH: S2-internal, S2-external
- THE624 Ethics - 3 points  
MURDOCH: S2-external

**Research Option - 48 credit points**

**Years 2 and 3 - 48 credit points**

**Core Units - 48 credit points**

Select a Research Option from those listed below of up to 15 points and select the balance of the points for Years 2 and 3 Core Units from the Coursework Option Year 2 and Year 3 units listed above.

**Research Option 1 - 6 credit points**

ART6401 Masters by Coursework Research Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

**Research Option 2 - 12 credit points**

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
and

ART6402 Masters by Coursework Research Project - 9 points  
Not available this year

**Research Option 3 - 15 credit points**

ART604 Advanced Research Methods - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
and

ART610 Masters by Coursework Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## VETERINARY SCIENCE

### MASTER OF VETERINARY CLINICAL STUDIES (MVETCLINSTUD)

School of Veterinary and Life Sciences

Master of Veterinary Clinical Studies (MVetClinStud)

Course Codes: M1223

Duration: 1.5 years full-time

#### Availability:

- Murdoch campus (internal)
- This course is not available to International students.

Restriction: All graduate courses are subject to restriction.

This course provides veterinarians engaged in a residency training program with intense clinical instruction using case material from the Murdoch University Veterinary Hospital. The course comprises units and structured training opportunities that meet the credentials for examination by the Australian and New Zealand College of Veterinary Scientists or the American or European Colleges in the relevant veterinary clinical discipline. Practical clinical training is based on supervised management of clinical cases in a selected field of veterinary clinical science, attendance and participation in clinical rounds, seminars, journal club and necropsy presentations, and in the completion of papers for publication in peer-reviewed journals.

#### Admission Requirements (Onshore):

Current registration as a Veterinary Surgeon in Australia or recognised qualifications that would permit registration as a Veterinary Surgeon in Australia; plus acceptance into a Residency Training Program in the College of Veterinary Medicine; plus approval of the Academic Chair.

Equivalent of an Academic IELTS overall score of 7.0 with no band less than 6.5.

#### Employment Prospects:

This course provides clinical training opportunities that meet components of the credentialing process for examination by the Australian and New Zealand College of Veterinary Scientists or the American or European Colleges in the relevant veterinary clinical discipline. As such, this is a step in the professional pathway to recognition as a veterinary specialist and towards a career in veterinary academia.

#### Professional Accreditation:

This course meets components of the credentialing process for examination by the Australian and New Zealand College of Veterinary Scientists or the American or European Colleges in the relevant clinical discipline.

### Course Structure - 36 credit points

#### Core Units - 18 to 36 credit points

VET678 Veterinary Case Management Rounds - 3 points  
MURDOCH: H-internal, Y-internal

VET679 Seminars in Veterinary Clinical Studies - 3 points  
MURDOCH: H-internal, Y-internal

VET622 Case Reports - 3 points  
<span data-type="offering" data-unit="VET622">MURDOCH: S1-external (quota of 20 places), S2-external (quota of 20 places)</span>

The number of credit points across Advanced Veterinary Case Management and Advanced Veterinary Case Management 2, and the choice of Specified Elective units, must be approved by the Academic Chair based on the discipline choice of the student.

VET675 Advanced Veterinary Case Management - 3 points

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

VET6751 Advanced Veterinary Case Management - 6 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

VET6752 Advanced Veterinary Case Management - 9 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

VET676 Advanced Veterinary Case Management 2 - 3 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

VET6761 Advanced Veterinary Case Management 2 - 6 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

VET6762 Advanced Veterinary Case Management 2 - 9 points  
MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

#### Specified Electives - 0 to 18 credit points

Select from the following with approval of the Academic Chair.

VET625 Medicine 1 - 3 points  
Not available this year

VET626 Medicine 2 - 3 points  
MURDOCH: S1-external

VET628 Dermatology - 3 points  
Not available this year

VET629 Infectious and Parasitic Diseases - 3 points  
Not available this year

VET694 Evidence-Based Clinical Practice - 3 points  
Not available this year

VET649 Veterinary Studies Masters Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET641 Principles of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET642 Practical Applications of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external

VET609 Medicine 3 - 3 points  
MURDOCH: S2-external

VET647 Advanced Surgical Techniques - 3 points  
<span data-type="offering" data-unit="VET647">MURDOCH: S1-external (quota of 25 places)</span>

VET673 Equine Medicine I - 3 points  
MURDOCH: S1-internal, S1-external

VET674 Equine Medicine II - 3 points  
MURDOCH: S2-internal, S2-external

VET660 Advanced Anaesthesia and Critical Care - 3 points  
<span data-type="offering" data-unit="VET660">MURDOCH: S1-external (quota of 30 places)</span>

VET671 Diagnostic Imaging - 3 points  
<span data-type="offering" data-unit="VET671">MURDOCH: S1-external (quota of 30 places)</span>

VET699 Epidemiological Studies: Design and Analysis - 3 points  
MURDOCH: S1-internal, S1-external

VET666 Research Methodology - 3 points  
MURDOCH: S1-internal

### MASTER OF VETERINARY STUDIES (CONSERVATION MEDICINE) (MVS)

School of Veterinary and Life Sciences

Master of Veterinary Studies (MVS)

Course Codes: M1122

Duration: 1 year full-time or part-time equivalent



**Availability:**

- Murdoch campus (internal) (subject to approval of Academic Chair)
- Murdoch campus (external)

*Restriction: All graduate courses are subject to restriction.*

Conservation medicine is an emerging discipline that involves the integration of veterinary science, conservation biology and public health in order to: advance biodiversity conservation; address issues associated with the interrelationships between human, animal and ecosystem health; and study the effects of global environmental change on these health interrelationships. There is increasing recognition that veterinarians have an important role to play within interdisciplinary teams working on environmental conservation projects.

This degree will provide veterinarians with training and expertise which can be applied in private practice, zoos and wildlife conservation projects. It may be entirely coursework-based or may involve a placement with a conservation project either in Australia or overseas.

**Admission Requirements (Onshore):**

Recognised Bachelor of Veterinary Medicine and Surgery (BVMS) or higher, or equivalent training.

Recognised Prior Learning - at least one year of experience in the workplace if applying to enter directly into the MVS in Conservation Medicine.

Internet access is required for all students, especially those studying externally.

IELTS of 6.5 (with no band less than 6.0) or equivalent proficiency test.

\*\*\*Students that undertake English for Academic Purposes (EAP) will still be required to sit a proficiency test.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

**Special Requirements:**

Internet access is required for all students.

**Employment Prospects:**

Careers in endangered species recovery projects, as zoo veterinarians or in wildlife conservation through work in private practice.

**Professional Recognition:**

The Australian Veterinary Association recognises veterinary graduate study as fulfilling requirements toward required professional development (continuing veterinary education).

**Main Research Areas:**

Wildlife, Zoo and Conservation Medicine.

**Course Structure - 24 credit points****Core Units - 12 to 15 credit points**

VET630 Conservation Medicine - 3 points  
MURDOCH: S2-internal, S2-external

VET631 Wildlife Medicine - 3 points  
MURDOCH: S1-internal, S1-external

Plus either

VET639 Conservation Medicine Field Placement/Project - 3 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

OR

VET6391 Conservation Medicine Field Placement/Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Plus either

VET641 Principles of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

VET664 Wildlife Comparative Pathology - 3 points  
MURDOCH: S2-internal, S2-external

**Specified Electives - 9 to 12 credit points**

Choice of electives will be determined by the total of credit points taken as Core Units.

Select from the units below. Some electives have specific entrance requirements and students will need to check with Unit Coordinators to determine their eligibility for these units. Students are also able to pursue cross-institutional enrolment opportunities. More information is available upon acceptance into the course.

VET664 Wildlife Comparative Pathology - 3 points  
MURDOCH: S2-internal, S2-external

VET639 Conservation Medicine Field Placement/Project - 3 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET6391 Conservation Medicine Field Placement/Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET629 Infectious and Parasitic Diseases - 3 points  
Not available this year

BIO606 Aquatic Biosecurity - 3 points  
Not available this year

VET640 Infectious and Emerging Diseases - 3 points  
MURDOCH: S2-external

VET641 Principles of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET606 Wildlife Epidemiology and Disease Risk Analysis - 3 points  
MURDOCH: S2-internal, S2-external

VET699 Epidemiological Studies: Design and Analysis - 3 points  
MURDOCH: S1-internal, S1-external

VET642 Practical Applications of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external

VET649 Veterinary Studies Masters Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET694 Evidence-Based Clinical Practice - 3 points  
Not available this year

AST650 Culture, Communities and Sustainability in Asia - 3 points  
MURDOCH: S1-internal, S1-external

SUS611 Resilient Regions: People and Practice - 3 points  
<span data-type="offering" data-unit="SUS611">MURDOCH: SUM-internal (quota of 10 places), SUM-external, U-internal (quota of 10 places), U-external</span>

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points  
MURDOCH: S2-internal, S2-external

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

## MASTER OF VETERINARY STUDIES (SMALL ANIMAL PRACTICE) (MVS)

School of Veterinary and Life Sciences

Master of Veterinary Studies (MVS)

Course Codes: M1022

Duration: 2 years full-time or part-time equivalent (part-time recommended)

### Availability:

- Not currently available to new admissions
- This course is not available on campus and so is not available to international students studying in Australia on a student visa; however, graduate students who have successfully completed the Postgraduate Certificate in Small Animal Practice (International) (C1087) are eligible to apply for external study only.

Restriction: All graduate courses are subject to restriction.

This course is designed for veterinarians in small animal practice to develop further their skills in a number of discipline areas relevant to small animal clinical practice and provides instruction on the new diagnostic techniques and therapeutic modalities. Evidence-Based Clinical Practice and Case Reports are core units; with electives in Dermatology, Medicine (1-3), Infectious and Parasitic Diseases, Research Methodology, Epidemiological Studies, Advanced Surgical Techniques, Advanced Veterinary Anaesthesia and Analgesia, Diagnostic Imaging and Wildlife Medicine.

### Admission Requirements (Onshore):

Current registration as a veterinary surgeon in Australia, or recognised qualifications that would permit registration as a Veterinary Surgeon in Australia. Clinical Practice experience (Recognised Prior Learning) of at least one year in the workplace if applying to enter directly into the Master of Veterinary Studies (Small Animal Practice).

Applicants with a Graduate Certificate in Veterinary Studies in Small Animal Practice (International) (AQF Level 8) are required to have achieved a GPA of at least 60 percent in that degree course.

Active engagement in small animal practice.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Special Requirements:

Internet access is required for all students.

### Employment Prospects:

Veterinary careers in referral practices. This MVS degree provides appropriate preparation for Membership of the Australian and New Zealand College of Veterinary Scientists and for Residency training programs in Australia.

### Professional Recognition:

The Australian Veterinary Association recognises veterinary graduate study as fulfilling requirements toward required professional development (continuing veterinary education).

## Course Structure - 24 credit points

### Core Units - 6 credit points

VET622 Case Reports - 3 points

VET694 Evidence-Based Clinical Practice - 3 points

### Specified Electives - 18 credit points

Select from the following:

VET625 Medicine 1 - 3 points

VET626 Medicine 2 - 3 points

VET609 Medicine 3 - 3 points

VET628 Dermatology - 3 points

VET629 Infectious and Parasitic Diseases - 3 points

VET631 Wildlife Medicine - 3 points

VET666 Research Methodology - 3 points

VET647 Advanced Surgical Techniques - 3 points

VET660 Advanced Anaesthesia and Critical Care - 3 points

VET671 Diagnostic Imaging - 3 points

## MASTER OF VETERINARY STUDIES (VETERINARY SURVEILLANCE) (MVS)

School of Veterinary and Life Sciences

Master of Veterinary Studies (MVS)

Course Codes: M1121

Duration: 1 year full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This degree will provide veterinarians with knowledge and expertise in epidemiology and in particular skills in disease surveillance, biosecurity and risk assessment. You will develop the skills necessary for effective disease surveillance and implementation of disease control strategies. The degree will provide instruction on the diagnosis, detection and control of new, emerging and re-emerging diseases.

### Admission Requirements (Onshore):

Bachelor of Veterinary Medicine and Surgery (BVMS) or equivalent undergraduate veterinary degree with at least one year of experience in the work place. Direct entry for graduates with a higher level (DVM) veterinary degree.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

### Employment Prospects:

This degree will enhance employment opportunities for veterinarians working in Australia and overseas by allowing specialisation in the latest methods to develop and evaluate disease control programs in production animals, and to improve biosecurity and food security.

### Main Research Areas:

Epidemiology of infectious and non-infectious diseases and biosecurity.

## Course Structure - 24 credit points

### Core Units - 24 credit points

VET641 Principles of Epidemiology - 3 points

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET642 Practical Applications of Epidemiology - 3 points

MURDOCH: S1-internal, S1-external

VET640 Infectious and Emerging Diseases - 3 points

MURDOCH: S2-external

VET699 Epidemiological Studies: Design and Analysis - 3 points

MURDOCH: S1-internal, S1-external

VET649 Veterinary Studies Masters Research Dissertation - 12 points

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

## DOCTOR OF VETERINARY MEDICAL SCIENCE (DVETMEDSC)

School of Veterinary and Life Sciences

Doctor of Veterinary Medical Science (DVetMedSc)

Course Codes: D1061

Duration: 3 years full-time or part-time equivalent

### Availability:

- Murdoch campus (internal)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

This course provides an advanced level of study in veterinary science at a high degree of specialisation in a selected area of study. For the clinical student the course provides an advanced academic preparation in both clinical training and applied research (which may be suitable to support speciality board certification). For the non-clinical student, the degree provides the opportunity for advanced study in analytical and research skills in veterinary science. Both programs culminate the experience with the completion of a research thesis.

### Admission Requirements (Onshore):

To be eligible for admission as a candidate for a Doctor of Veterinary Medical Science, an applicant must have: Bachelor Degree with at least a 2A Honours normally in the same discipline (AQF level 8); or a Masters Degree normally in the same discipline (AQF level 9) and satisfy the Graduate Research Manager with evidence of substantive and significant scholarly or professional attainments; or a Bachelor Degree normally in the same discipline (AQF level 7) and satisfy the Graduate Research Manager with evidence of substantive and significant scholarly or professional attainments including satisfactory research preparation the equivalent of AQF level 8 or 9.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

### Employment Prospects:

Careers in a range of veterinary science fields including research, clinical and academic fields.

### Main Research Areas:

Veterinary Science

## Course Structure - 72 credit points

### Core Units - 48 credit points

VET770 Doctor of Veterinary Medical Science Thesis - 48 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

### Specified Electives - 24 credit points

Select from the following:

VET609 Medicine 3 - 3 points  
MURDOCH: S2-external

VET625 Medicine 1 - 3 points  
Not available this year

VET626 Medicine 2 - 3 points  
MURDOCH: S1-external

VET628 Dermatology - 3 points  
Not available this year

VET629 Infectious and Parasitic Diseases - 3 points  
Not available this year

VET630 Conservation Medicine - 3 points  
MURDOCH: S2-internal, S2-external

VET631 Wildlife Medicine - 3 points

MURDOCH: S1-internal, S1-external

VET639 Conservation Medicine Field Placement/Project - 3 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET6391 Conservation Medicine Field Placement/Project - 6 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET640 Infectious and Emerging Diseases - 3 points  
MURDOCH: S2-external

VET641 Principles of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET642 Practical Applications of Epidemiology - 3 points  
MURDOCH: S1-internal, S1-external

VET647 Advanced Surgical Techniques - 3 points  
<span data-type="offering" data-unit="VET647">MURDOCH: S1-external (quota of 25 places)</span>

VET649 Veterinary Studies Masters Research Dissertation - 12 points  
MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

VET660 Advanced Anaesthesia and Critical Care - 3 points  
<span data-type="offering" data-unit="VET660">MURDOCH: S1-external (quota of 30 places)</span>

VET664 Wildlife Comparative Pathology - 3 points  
MURDOCH: S2-internal, S2-external

VET666 Research Methodology - 3 points  
MURDOCH: S1-internal

VET671 Diagnostic Imaging - 3 points  
<span data-type="offering" data-unit="VET671">MURDOCH: S1-external (quota of 30 places)</span>

VET678 Veterinary Case Management Rounds - 3 points  
MURDOCH: H-internal, Y-internal

VET679 Seminars in Veterinary Clinical Studies - 3 points  
MURDOCH: H-internal, Y-internal

VET694 Evidence-Based Clinical Practice - 3 points  
Not available this year

VET699 Epidemiological Studies: Design and Analysis - 3 points  
MURDOCH: S1-internal, S1-external

## WATER TREATMENT AND DESALINATION

### GRADUATE DIPLOMA IN WATER TREATMENT AND DESALINATION (GRADDIPWTRMT)

School of Engineering and Information Technology

Graduate Diploma in Water Treatment and Desalination  
(GradDipWtTrmt)

Course Codes: G1076

Duration: 1 year full-time (Semester 1 commencement only) or part-time equivalent

### Availability:

- Murdoch campus (internal)

Restriction: All graduate courses are subject to restriction.

The Graduate Diploma in Water Treatment and Desalination will provide the professional working in the water industry with the basic engineering and science education to support entry-level understanding, design, operation, and monitoring of conventional potable water and wastewater (sewage) treatment processes, as well as many of the more specific water treatment processes allied with industry, agriculture, mining, and public services needs. It is well

suited to the professional wishing to upgrade skills for career advancement or to satisfy continuing education requirements. It will also provide the graduate with the requisite coursework to undertake subsequent higher graduate degree courses. The course is a self-contained program or may be taken as year 1 of a two-year program of study leading to a Master of Water Treatment and Desalination.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) in an Environmental, Chemical or related Engineering discipline.

Students with recognised prior learning in other disciplines or practice may also be eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

#### **Special Requirements:**

Some attendance at on- and off-campus site visits and technology operation sessions will be a requirement.

Water treatment engineering is a highly quantitative profession requiring sound grounding in physics, chemistry, fluid mechanics, and mathematics. The coursework assumes a prior understanding of the fundamentals of these disciplines to a level allowing entry into the specifics of water engineering without further general instruction in these disciplines. Consequently, students entering the course must have passed the following units at Murdoch or their equivalent elsewhere:

MAS221 Mathematical Modelling

ENG201 Fluid Mechanics

CHE144, Foundations of Chemistry

PEN152, Principles of Physics

For students with potentially equivalent alternative training, contact the Academic Chair for assessment of equivalency.

#### **Employment Prospects:**

Graduates of this course can find employment in one of the companies or governmental agencies in which water is the primary business, such as municipal water supply and wastewater management, governmental departments of water and natural resources, and private or public irrigation and water resource management entities. Additionally, many industries and primary producers employ water treatment engineers in water divisions which are mission critical components of their businesses, such as mining, horticulture, energy generation, oil and gas recovery, livestock and agriculture production and processing, semi-conductor and pharmaceutical manufacturing, and hospitals and health care facilities.

#### **Professional Recognition:**

This course is designed to satisfy requirements of Engineers Australia for Continuing Professional Education of Engineers in the disciplines of environmental engineering, water engineering, and chemical engineering in the areas of water process control, technology, and management.

#### **Main Research Areas:**

Design and technology specification for conventional water treatment and industrial process water unit operations; optimisation and modernisation of primary and secondary water and wastewater treatment trains; application of technology for water purification and pollution control.

### **Course Structure - 24 credit points**

#### **Core Units - 24 credit points**

ENG507 Environmental Water Chemistry - 3 points  
MURDOCH: S1-internal

ENG509 Water Regulation, Finance and Management - 3 points  
MURDOCH: S1-internal

ENG550 Design Project - 3 points  
MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

ENG524 Process Unit Operations - 3 points  
MURDOCH: S1-internal, S1-external

ENG510 Physicochemical Water Treatment Operations - 3 points  
MURDOCH: S2-internal

ENG515 Biological Water Treatment Operations - 3 points  
MURDOCH: S2-internal

ENG516 Water Engineering Intuition and Analysis - 3 points  
MURDOCH: S1-internal

ENG517 Water Treatment Technology Practical - 3 points  
MURDOCH: S2-internal

---

## **MASTER OF WATER TREATMENT AND DESALINATION (MWATTRMT)**

School of Engineering and Information Technology

*Master of Water Treatment and Desalination (MWatTrmt)*

Course Codes: M1259

*Duration: 2 years full-time (Semester 1 commencement only) or part-time equivalent*

#### **Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

Graduates will be able to design, engineer, operate, and troubleshoot both broad spectrum and specialised water treatment processes, not only for achieving conventional potable water and wastewater (sewage) quality objectives, but also for meeting more targeted industrial, agricultural, and resource recovery needs. Additionally, the coursework will address water treatment engineering to meet decentralised and developing population demands, and emerging concerns for integration of renewable energy, minimisation of non-beneficial residuals, and increased resilience and sustainability of water supplies in the face of uncertain economic and natural conditions. This course will prepare students either for entry into the water industry with specialty skills in design, operation, monitoring and planning of water treatment and desalination infrastructure and processes; or for matriculation into a doctoral program of research on the theory, analysis, design, invention, and application of water purification processes and technology. The coursework will provide students with a strong grounding in the fundamentals of water engineering, but an application and practice orientation is the hallmark of the program. The course is designed to give graduates specific knowledge of the tools, algorithms, hardware and software, and the state of the art practice of water purification for beneficial use. Graduates will have the knowledge and hands-on skills to analyse water quality, design and apply technologies for specific contaminants and conditions, troubleshoot product water and process excursions, and oversee and instruct the work of technicians and operators.

#### **Admission Requirements (Onshore):**

Recognised Bachelor's degree (AQF Level 7) in an Environmental, Chemical or related Engineering discipline. Students with recognised prior learning in other disciplines or practice may also be eligible for admission as determined by the Academic Chair. Students with an Engineering Bachelor's degree with at least 2A Honours (AQF Level 8) in a related Engineering discipline may enter the coursework with all of the first year units satisfied. Successful completion of the Graduate Diploma in Water Treatment and Desalination (GradDipWatTrmt) from Murdoch University or its equivalent elsewhere satisfies the first year requirements of the Master's coursework.

Questions regarding eligibility and/or relevance of previous coursework should be directed to the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Special Requirements:**

Some attendance at on- and off-campus site visits and technology operation sessions will be a requirement. Water treatment engineering is a highly quantitative profession requiring sound grounding in physics, chemistry, fluid mechanics, and mathematics. The coursework assumes a prior understanding of the fundamentals of these disciplines to a level allowing entry into the specifics of water engineering without further general instruction in these disciplines. Consequently, students entering the course must have passed the following units at Murdoch or their equivalent elsewhere:  
 MAS221 Mathematical Modelling  
 ENG201 Fluid Mechanics  
 CHE144, Foundations of Chemistry  
 PEN152, Principles of Physics  
 For students with potentially equivalent alternative training, contact the Academic Chair for assessment of equivalency.

**Employment Prospects:**

Graduates of this course can find employment in one of the companies or governmental agencies in which water is the primary business, such as municipal water supply and wastewater management, governmental departments of water and natural resources, and private or public irrigation and water resource management entities. Additionally, many industries and primary producers employ water treatment engineers in water divisions which are mission critical components of their businesses, such as mining, horticulture, energy generation, oil and gas recovery, livestock and agriculture production and processing, semi-conductor and pharmaceutical manufacturing, and hospitals and health care facilities.

**Professional Recognition:**

This course is designed to satisfy requirements of Engineers Australia for Continuing Professional Education of Engineers in the disciplines of environmental engineering, water engineering, and chemical engineering in the areas of water process control, technology, and management.

**Main Research Areas:**

Design and technology specification for conventional water treatment and industrial process water unit operations; optimisation and modernisation of primary and secondary water and wastewater treatment trains; application of technology for water purification and pollution control.

**Course Structure - 48 credit points**

**Core Units - 48 credit points**

ENG507 Environmental Water Chemistry - 3 points  
 MURDOCH: S1-internal

ENG509 Water Regulation, Finance and Management - 3 points  
 MURDOCH: S1-internal

ENG550 Design Project - 3 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

ENG524 Process Unit Operations - 3 points  
 MURDOCH: S1-internal, S1-external

ENG510 Physicochemical Water Treatment Operations - 3 points  
 MURDOCH: S2-internal

ENG515 Biological Water Treatment Operations - 3 points  
 MURDOCH: S2-internal

ENG516 Water Engineering Intuition and Analysis - 3 points  
 MURDOCH: S1-internal

ENG517 Water Treatment Technology Practical - 3 points

MURDOCH: S2-internal

ENG601 Desalination Technology and Modelling - 3 points  
 MURDOCH: S1-internal

ENG602 Decentralised and Industrial Water Treatment - 3 points  
 MURDOCH: S1-internal

ENG603 Advanced Water Treatment Design - 3 points  
 MURDOCH: S1-internal

ENG670 Measurement and Uncertainty Analysis - 3 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal

ENG615 Engineering Masters Project - 12 points  
 MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal

---

**WEB COMMUNICATION**

---

**GRADUATE DIPLOMA IN WEB COMMUNICATION (GRADDIPWEBCOMM)**

School of Arts

Graduate Diploma in Web Communication (GradDipWebComm)

Course Codes: G1071

Duration: 1 year full-time or part-time equivalent

**Availability:**

- Murdoch campus (internal)

*Restriction: All graduate courses are subject to restriction.*

This course is an innovative qualification for professionals who need the theoretical knowledge and technical skills in social media tactics and technologies, search engine optimisation, web content, web analytics and online communications strategies. The course will cover the full spectrum of web communications in business, social, political, and organisational spheres and provide students with the technical skills to maximise opportunities in this new landscape.

**Admission Requirements (Onshore):**

Recognised Bachelor's degree in any field, or equivalent training, or satisfactory preparation for the course through previous study or professional experience.

Equivalent of an Academic IELTS overall score of 6.0 with no band less than 6.0.

**Employment Prospects:**

Web communications specialist; online PR and marketing consultant; SEO strategist; digital-content strategist; e-commerce specialist; digital producer; e-marketer; web studio account manager; social media strategist; web metrics analyst.

**Course Structure - 24 credit points**

**Core Units - 21 credit points**

MCM501 Critical and Ethical Issues in Communication - 3 points  
 MURDOCH: S1-internal

MCM502 Web Strategy - 3 points  
 MURDOCH: S1-internal

MCM506 Strategic Communication - 3 points  
 MURDOCH: S1-internal

WEB564 Web Analytics - 3 points  
 MURDOCH: S2-internal

WEB565 Web Planning - 3 points  
 MURDOCH: S2-internal

WEB566 Social Media Analysis - 3 points  
 MURDOCH: S1-internal

WEB567 Advanced Web Communication Project - 3 points  
MURDOCH: S2-internal

### **Specified Electives - 3 credit points**

Select from the following:

MBS576 Global Media Communication - 3 points  
MURDOCH: SP21-internal

MCM605 Public Relations, Communication and Culture - 3 points  
MURDOCH: S2-internal

MCM682 Global Media: Asia-Pacific Perspectives - 3 points  
MURDOCH: S2-internal

MCM604 People, Corporates and Globalisation - 3 points  
MURDOCH: S2-internal

## **WILDLIFE HEALTH AND CONSERVATION**

### **MASTER OF WILDLIFE HEALTH AND CONSERVATION (MWILDLIFEHTH)**

School of Veterinary and Life Sciences

Master of Wildlife Health and Conservation (MWildlifeHth)

Course Codes: M1232

Duration: 2 semesters full-time or part-time equivalent

#### **Availability:**

- Murdoch campus (internal) (subject to approval of Academic Chair)
- Murdoch campus (external)

Restriction: All graduate courses are subject to restriction.

The Master of Wildlife Health and Conservation aims to provide graduates of biology, ecology, and environmental science with applied training in veterinary aspects of wildlife health that can be incorporated into conservation and global health programs, including practical and theoretical research skills required to work in this arena such as Disease Risk Analysis, disease surveillance methods and techniques, and pathology of wildlife. A primary focus of the program is to develop an understanding of where wildlife health sits in the broader field of One Health (the intersection of human, animal and environmental health), so that graduates can confidently apply their knowledge to work in the transdisciplinary environment that is required for contemporary conservation research.

#### **Admission Requirements (Onshore):**

Completion of an AQF Level 8 qualification, in the biological, ecological, environmental or animal sciences, e.g. Honours, Graduate Certificate or Graduate Diploma. Students with a Bachelor's degree in the biological, ecological, environmental or animal sciences with at least two years of relevant work experience are also eligible for admission as determined by the Academic Chair.

Equivalent of an Academic IELTS overall score of 6.5 with no band less than 6.0.

#### **Special Requirements:**

Internet access is required for all students.

#### **Employment Prospects:**

This course will provide graduates with a broad range of career opportunities delivering expertise in wildlife health and disease as it applies to conservation outcomes. These include organisations involved in species conservation/recovery and translocation/reintroduction programs, such as conservation NGOs, government conservation/wildlife departments, zoos, and other not-for-profit wildlife agencies.

#### **Main Research Areas:**

Epidemiology and disease ecology, conservation biology, wildlife health and pathology.

### **Course Structure - 24 credit points**

#### **Core Units - 12 credit points**

VET603 One Health: Wildlife Perspectives - 3 points  
MURDOCH: S1-internal, S1-external

VET604 Principles of Wildlife Health - 3 points  
MURDOCH: S1-internal, S1-external

VET605 Wildlife Comparative Pathology - 3 points  
MURDOCH: S2-internal, S2-external

VET606 Wildlife Epidemiology and Disease Risk Analysis - 3 points  
MURDOCH: S2-internal, S2-external

#### **Specified Electives - 12 credit points**

Select from the following:

VLS683 Advanced Research Methods for Scientists - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

VET653 Wildlife Health and Conservation Dissertation - 9 points  
MURDOCH: H-internal, H-external, Y-internal, Y-external

VET654 Wildlife Health and Conservation Project - 9 points  
MURDOCH: H-internal, H-external, Y-internal, Y-external

BIO606 Aquatic Biosecurity - 3 points  
Not available this year

BIO639 Global Biosecurity - 3 points  
MURDOCH: S1-internal, S1-external

BIO681 Challenges in Food Security - 3 points  
MURDOCH: S2-internal, S2-external

ENV616 Environmental Policy for the 21st Century - 3 points  
MURDOCH: S1-internal, S1-external

ENV680 Climate Change Adaptation: Ecosystems and Societies - 3 points  
MURDOCH: S2-internal, S2-external

VET655 One Health Management and Leadership - 3 points  
MURDOCH: S1-external

VET656 Public Health and Epidemiology - 3 points  
MURDOCH: S2-internal

SWM628 Development and Sustainability - 3 points  
MURDOCH: W-internal

SWM646 Parliamentary Democracy - 3 points

# Teaching Periods

Each unit may be available in one or more teaching periods. Some periods may colloquially be referred to as 'Summer' (periods beginning with 'SUM', for example) or 'Winter' (periods beginning with W, for example), or other groupings.

A full list of teaching periods at the time of printing is below. Standard teaching periods are highlighted.

Code	Start Date	Census Date	End Date	Code	Start Date	Census Date	End Date
ASP3	1/5/2017	17/6/2017	25/11/2017	TJA	9/1/2017	4/2/2017	23/4/2017
AU1	17/4/2017	29/4/2017	16/6/2017	TJB	9/1/2017	4/2/2017	23/4/2017
AU10	13/3/2017	21/3/2017	21/4/2017	TJD	15/1/2017	11/2/2017	23/4/2017
AU11	8/5/2017	16/5/2017	16/6/2017	TMA	8/5/2017	3/6/2017	13/8/2017
AU2	10/4/2017	29/4/2017	23/6/2017	TMB	8/5/2017	3/6/2017	13/8/2017
DE2	24/7/2017	19/8/2017	1/12/2017	TMD	7/5/2017	3/6/2017	13/8/2017
DE7	10/7/2017	12/8/2017	1/12/2017	TSA	4/9/2017	30/9/2017	10/12/2017
<b>H</b>	<b>31/7/2017</b>	<b>7/10/2017</b>	<b>23/6/2018</b>	TSB	4/9/2017	30/9/2017	10/12/2017
H1	29/5/2017	19/8/2017	24/6/2018	TSD	3/9/2017	30/9/2017	10/12/2017
HX	31/7/2017	7/10/2017	23/6/2018	U	27/11/2017	16/12/2017	2/2/2018
OUA1	27/2/2017	18/3/2017	2/6/2017	U1	20/11/2017	2/12/2017	12/1/2018
OUA2	29/5/2017	17/6/2017	1/9/2017	U2	4/12/2017	23/12/2017	9/2/2018
OUA3	28/8/2017	16/9/2017	1/12/2017	UA1	30/1/2017	7/2/2017	10/3/2017
OUA4	27/11/2017	16/12/2017	2/3/2018	UA2	28/11/2016	17/12/2016	24/2/2017
R1	1/1/2017	11/2/2017	30/6/2017	UA3	27/2/2017	11/3/2017	14/4/2017
R2	1/7/2017	12/8/2017	31/12/2017	UA4	9/1/2017	17/1/2017	17/2/2017
RAU	12/2/2017	17/6/2017	30/6/2017	UA5	16/1/2017	23/1/2017	17/2/2017
RSP	13/8/2017	9/12/2017	31/12/2017	UA6	23/1/2017	31/1/2017	3/3/2017
<b>S1</b>	<b>27/2/2017</b>	<b>25/3/2017</b>	<b>24/6/2017</b>	UA7	16/1/2017	24/1/2017	25/2/2017
S1B	30/1/2017	18/2/2017	28/4/2017	UA8	13/2/2017	4/3/2017	28/4/2017
S1L	16/1/2017	18/2/2017	9/6/2017	UA9	27/11/2017	16/12/2017	23/2/2018
S1N	6/2/2017	4/3/2017	27/5/2017	UX	27/11/2017	16/12/2017	2/2/2018
S1X	27/2/2017	25/3/2017	24/6/2017	<b>W</b>	<b>26/6/2017</b>	<b>3/7/2017</b>	<b>28/7/2017</b>
<b>S2</b>	<b>31/7/2017</b>	<b>26/8/2017</b>	<b>25/11/2017</b>	W1	12/6/2017	20/6/2017	21/7/2017
S2B	7/8/2017	26/8/2017	3/11/2017	W2	19/6/2017	26/6/2017	21/7/2017
S2F	10/7/2017	5/8/2017	5/11/2017	W4	5/6/2017	13/6/2017	14/7/2017
S2G	29/5/2017	1/7/2017	27/10/2017	W6	15/5/2017	3/6/2017	21/7/2017
S2N	24/7/2017	19/8/2017	11/11/2017	WU1	24/4/2017	17/6/2017	7/1/2018
S2V	31/7/2017	26/8/2017	25/11/2017	WU3	5/6/2017	22/7/2017	26/1/2018
S2X	31/7/2017	26/8/2017	25/11/2017	WX	26/6/2017	3/7/2017	28/7/2017
SA1	27/2/2017	1/4/2017	24/6/2017	<b>Y</b>	<b>27/2/2017</b>	<b>29/4/2017</b>	<b>25/11/2017</b>
SA2	31/7/2017	2/9/2017	25/11/2017	Y1	9/1/2017	25/3/2017	25/11/2017
SB1	30/12/2016	4/1/2017	20/1/2017	Y2	23/1/2017	25/3/2017	17/11/2017
SB7	16/1/2017	21/1/2017	10/2/2017	Y3	13/2/2017	22/4/2017	7/1/2018
SB8	2/1/2017	9/1/2017	3/2/2017	Y4	30/1/2017	25/3/2017	22/9/2017
SC1	1/1/2017	25/2/2017	30/6/2017	Y5	13/11/2016	28/1/2017	19/11/2017
SC2	1/7/2017	12/8/2017	31/12/2017	YM	27/2/2017	29/4/2017	25/11/2017
SP1	28/8/2017	4/9/2017	29/9/2017	YMV	27/2/2017	29/4/2017	25/11/2017
SP17	18/9/2017	30/9/2017	17/11/2017	YX	27/2/2017	29/4/2017	25/11/2017
SP21	19/6/2017	1/7/2017	11/8/2017				
SP22	17/7/2017	22/7/2017	11/8/2017				
SP23	3/7/2017	15/7/2017	18/8/2017				
SPA1	4/9/2017	4/11/2017	24/6/2018				
SS1	30/10/2017	11/11/2017	22/12/2017				
SS2	2/1/2017	7/1/2017	27/1/2017				
SS3	13/11/2017	2/12/2017	4/2/2018				
ST1	15/1/2017	1/2/2017	7/4/2017				
ST2	7/4/2017	24/4/2017	30/6/2017				
ST3	30/6/2017	17/7/2017	22/9/2017				
ST4	22/9/2017	9/10/2017	15/12/2017				
<b>SUM</b>	<b>28/11/2016</b>	<b>17/12/2016</b>	<b>3/2/2017</b>				
SUM1	21/11/2016	3/12/2016	13/1/2017				
SUM2	5/12/2016	20/12/2016	10/2/2017				
SUMX	28/11/2016	17/12/2016	3/2/2017				
<b>T1</b>	<b>9/1/2017</b>	<b>4/2/2017</b>	<b>15/4/2017</b>				
T1X	9/1/2017	4/2/2017	15/4/2017				
<b>T2</b>	<b>1/5/2017</b>	<b>27/5/2017</b>	<b>5/8/2017</b>				
T2X	1/5/2017	27/5/2017	5/8/2017				
<b>T3</b>	<b>21/8/2017</b>	<b>16/9/2017</b>	<b>25/11/2017</b>				
T3X	21/8/2017	16/9/2017	25/11/2017				

7

# Units

Units are offered at Murdoch campus, Mandurah campus and Rockingham campus, plus other locations through partnerships with tertiary education providers including selected Australian universities and overseas institutions. Units on offer this year are listed and described in this section of the Handbook.

## Cancellation of Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Animal Science		Points
Advanced Crop and Pasture Science (ANS312)	Not available this year	3
Agricultural and Environmental Technologies (ANS311)	Not available this year	3
Agricultural Markets, Economics and Policy (ANS309)	Not available this year	3
Agricultural Science and Food Production (ANS105)	MURDOCH: S1-internal, S1-external	3
Animal Industry Experience (ANS337)	MURDOCH: S2-internal	3
Animal Production Systems II (ANS230)	MURDOCH: S1-internal	3
Animal Production Systems III (ANS333)	MURDOCH: S1-internal	3
Animal Structure and Function (ANS221)	MURDOCH: S2-internal	3
Applied Animal Agriculture (ANS363)	MURDOCH: Y-internal	3
Applied Animal Breeding (ANS364)	MURDOCH: Y-internal	3
Crop and Pasture Science (ANS207)	MURDOCH: S2-internal	3
Crop Protection and Plant Biosecurity (ANS208)	MURDOCH: S2-internal	3
Equine Nutrition and Health (ANS366)	MURDOCH: S2-internal	3
Equine Physiology and Behaviour (ANS365)	MURDOCH: S1-internal	3
Introduction to Livestock Science and Genetics (ANS101)	MURDOCH: S2-internal, UA6-internal (closed)	3
Introduction to the Animal Body (ANS102)	MURDOCH: S1-internal	3
New Colombo Plan Agricultural China Study Tour (ANS301)	MURDOCH: S2N-internal	3
Pathology and Diseases of Production Animals (ANS313)	MURDOCH: S1-internal	3

Asian Studies		Points
Anthropology and Its Others (AST612)	MURDOCH: S1-external	3
Anthropology, Society and Culture (AST312)	MURDOCH: S1-internal, S1-external	3
Asian Centuries (AST102)	MURDOCH: S1-internal, S1-external	3
Asian Studies Dissertation (AST634)	MURDOCH: H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Asian Studies Project (AST384)	MURDOCH: S1-internal, S2-external, SUM-external, U-external, W-external	3
Asian Studies Project (AST3841)	MURDOCH: S1-external, S2-external, SUM-external, U-external, W-external	6
Asian Studies Project (AST632)	MURDOCH: H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	6
Contemporary Asia (AST281)	MURDOCH: S2-internal, S2-external	3
Culture and Religion in Asia (AST352)	MURDOCH: S1-internal, S1-external	3
Culture, Communities and Sustainability in Asia (AST650)	MURDOCH: S1-internal, S1-external	3
Gender in Asian Societies (AST558)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Asian Studies (AST569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Asian Studies A (AST561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Asian Studies B (AST562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Nations, Narratives, Cultures in Contemporary Asia (AST530)	Not available this year	3
People's History of South-East Asia (AST286)	Not available this year	3
Perceptions of South-East Asian Society (AST556)	Not available this year	3
Rise of Asia and Modern History (AST531)	Not available this year	3
Society, Culture and Ecology in Asia (AST350)	MURDOCH: S1-internal, S1-external	3



Special Topics in Asian Studies (AST253)	Not available this year	3
Special Topics in Asian Studies (AST510)	Not available this year	3
Women in Asian Societies (AST288)	MURDOCH: S2-internal, S2-external	3

### Australian Indigenous Studies

### Points

Country, Nature and Identity: Indigenous Sustainability (AIS206)	MURDOCH: S1-internal, S1-external	3
Honours Thesis in Australian Indigenous Studies (AIS569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Australian Indigenous Studies A (AIS561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Australian Indigenous Studies B (AIS562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Indigeneity, Critical Theory and Social Justice (AIS307)	MURDOCH: S2-internal, S2-external	3
Indigenous Australia and the Nation (AIS204)	MURDOCH: S1-internal, S1-external	3
Introduction to Australian Indigenous Studies (AIS180)	MURDOCH: S1-internal, S1-external	3
Introduction to Indigenous Popular Culture (AIS110)	MURDOCH: S2-internal, S2-external	3
Master of Arts by Coursework Dissertation (AIS650)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Reading Reconciliation (AIS356)	MURDOCH: S2-internal, S2-external	3
Special Topics in Australian Indigenous Studies (AIS250)	Not available this year	3
Special Topics in Australian Indigenous Studies (AIS530)	Not available this year	3
Working with Indigenous Communities: Internship (AIS308)	MURDOCH: S1-internal	3

### Bachelor of Arts

### Points

Academic Learning Skills (BAR100)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Advanced Research in the Arts (BAR300)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Developing Research Skills and Methods (BAR200)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Ideas and Identity (BAR150)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3

### Bachelor of Business

### Points

Academic Skills for Business (BBS100)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Applying Mixed Methods Research to Business (BBS301)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TSA-internal	3
Empirical Research Methods for Business (BBS300)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Transforming Business (BBS150)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Understanding Business Research: An Introductory Approach (BBS200)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3

### Bachelor of Education

### Points

Assessment and Action Research (BED200)	MURDOCH: S2-internal, S2-external	3
Ideas in Education (BED100)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Schooling and Society - Research Skills (BED300)	MURDOCH: S1-internal, S1-external	3
Understanding Teachers' Work (BED150)	MURDOCH: S2-internal, S2-external	3

### Bachelor of Engineering Honours

### Points

--	--	--

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Design Concepts in Engineering (BEN150)	MURDOCH: S1-internal	3
Innovation and Ethics in Engineering (BEN300)	MURDOCH: S1-internal	3
Scientific Method in Engineering (BEN200)	MURDOCH: S1-internal	3
Transitioning into Engineering (BEN100)	MURDOCH: S1-internal, S2-internal	3

### Bachelor of Laws

### Points

Australian Legal System (BJU100)	MURDOCH: S1-internal, S2-internal	3
Law in Context (BJU150)	MURDOCH: S1-internal, S1-external	3
Legal Theory and Research (BJU300)	MURDOCH: S1-internal	3
Research Methods for Law (BJU200)	MURDOCH: S2-internal	3

### Bachelor of Nursing

### Points

Clinical Practice 5 Research Perspectives (BNR359)	Not available this year	3
Evidence Based Nursing Practice (BNR200)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
Health and Human Behaviour (BNR150)	MURDOCH: S2N-external MANDURAH: S2N-external	3
Transition to Nursing Studies (BNR100)	MURDOCH: S1N-external, S2N-external MANDURAH: S1N-external, S2N-external	3

### Bachelor of Science

### Points

Advanced Quantitative Research Methods (BSC302)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Applied Research Skills in ICT (BSC301)	MURDOCH: S1-internal, S1-external	3
Building Blocks for Science Students (BSC100)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Innovation and Ethics in Science (BSC304)	MURDOCH: S1-internal, S1-external	3
Introduction to ICT Research Methods (BSC203)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TSA-internal	3
Introduction to Research Methodology and Evidence Based Practice (BSC206)	MURDOCH: S2-internal	3
Psychology: Measurement, Design and Analysis (BSC201)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Research and Evidence Based Practice (BSC306)	MURDOCH: S1-internal	3
Research in the Physical and Life Sciences (BSC200)	MURDOCH: S1-internal, S1-external	3
What is Science? (BSC150)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3

### Biological Sciences and Biotechnology

### Points

Animal Speciation, Radiation, Evolution (BIO244)	MURDOCH: S2-internal	3
Aquaculture (BIO380)	Not available this year	3
Aquatic Biosecurity (BIO606)	Not available this year	3
Australian Biodiversity (BIO257)	MURDOCH: S2-internal	3
Biochemistry (BIO247)	MURDOCH: S2-internal	3
Biosecurity Masters Research Dissertation (BIO629)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Biosecurity Policy Framework Obligations (BIO539)	MURDOCH: S2-external	3
Bloodstain Pattern Analysis (BIO692)	MURDOCH: S1-internal	3
Bodies of Evidence (BIO315)	MURDOCH: S2-internal	3
Cell Biology (BIO152)	MURDOCH: S2-internal	3
Challenges in Food Security (BIO681)	MURDOCH: S2-internal, S2-external	3
Conservation Biology (BIO375)	MURDOCH: S1-internal	3
Crime Scene Investigation I (BIO596)	MURDOCH: S2-internal	3
Crime Scene Investigation II (BIO685)	MURDOCH: S1-internal	3

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

Environmental Biology (BIO103)	MURDOCH: S1-internal, S1-external	3
Evolutionary Analysis (BIO379)	MURDOCH: S2-internal	3
Fingerprinting and Impression Evidence (BIO598)	MURDOCH: S2-internal	3
Fish and Wildlife Populations (BIO249)	MURDOCH: S1-internal	3
Food Security Masters Dissertation (BIO689)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Forensic DNA Analysis (BIO359)	MURDOCH: S1-internal	3
Forensic Science (Professional Practice) Masters Dissertation (BIO609)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Forensic Science (Professional Practice) Masters Project (BIO612)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Forensic Science and Miscarriages of Justice (BIO388)	MURDOCH: W-internal	3
Forensic Toxicology (BIO367)	MURDOCH: S2-internal	3
Genetic Engineering (BIO394)	MURDOCH: S1-internal	3
Genetics and Evolution (BIO356)	MURDOCH: S1-internal	3
Global Biosecurity (BIO639)	MURDOCH: S1-internal, S1-external	3
Homicide and Death Investigation (BIO597)	MURDOCH: S2-internal	3
Honours Thesis in Biotechnology (BIO4039-12)	MURDOCH: S1-internal, S2-internal	12
Honours Thesis in Forensic Biology and Toxicology (BIO4049-12)	Not available this year	12
Human DNA Profiling (BIO599)	MURDOCH: S2-internal	3
Industrial Bioprocessing and Bioremediation (BIO358)	Not available this year	3
Introduction to Marine Biology (BIO180)	MURDOCH: S1-internal	3
Invasive and Pest Species Management (BIO607)	Not available this year	3
Marine Botany (BIO254)	MURDOCH: S1-internal	3
Marine Ecology (BIO377)	MURDOCH: S1-internal	3
Marine Wildlife (BIO381)	Not available this year	3
Microbiology (BIO246)	MURDOCH: S1-internal	3
Molecular Biology (BIO282)	MURDOCH: S1-internal	3
Plant Biosecurity in Practice (BIO538)	MURDOCH: S1-external	3
Plant Biosecurity: Detection and Diagnostics (BIO537)	MURDOCH: S1-external	3
Plant Biotechnology and Proteomics (BIO355)	Not available this year	3
Plant Evolution, Radiation and Adaptation (BIO245)	MURDOCH: S1-internal	3
Special Topics in Biological Sciences and Biotechnology (BIO280)	Not available this year	3
Systems Biology (BIO378)	MURDOCH: S2-internal	3
Tropical Marine Biology (BIO393)	MURDOCH: W-internal (quota of 40 places)	3
Wildlife Biology (BIO376)	MURDOCH: S2-internal	3

<b>Biomedical Science</b>		<b>Points</b>
Advances in Medical Science (BMS315)	MURDOCH: S2-internal	3
Biomedical Physiology (BMS206)	MURDOCH: S1-internal	3
Clinical Biochemistry I (BMS323)	MURDOCH: S2-internal (quota of 25 places)	3
Clinical Biochemistry II (BMS423)	Not available this year	3
Clinical Haematology I (BMS326)	MURDOCH: S2-internal (quota of 25 places)	3
Clinical Haematology II (BMS426)	Not available this year	3
Clinical Immunology (BMS322)	MURDOCH: S2-internal (quota of 25 places)	3
Clinical Microbiology I (BMS324)	MURDOCH: S2-internal (quota of 25 places)	3
Clinical Microbiology II (BMS424)	Not available this year	3
Diagnostic Genomics (BMS327)	MURDOCH: S2-internal (quota of 25 places)	3
Essentials of Pharmacology and Chemotherapy (BMS317)	Not available this year	3
Forensic Anatomy and Anthropology (BMS213)	MURDOCH: S1-internal	3
Foundations of Vertebrate Form and Function (BMS107)	MURDOCH: S2-internal	3
Haematology (BMS218)	MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)	3
Histology (BMS321)	MURDOCH: S1-internal (quota of 30 places) (closed as the offering has reached capacity)	3
Histopathology (BMS325)	MURDOCH: S2-internal (quota of 20 places)	3
Introduction to the Human Body (BMS101)	MURDOCH: S1-internal	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Laboratory Medicine Practice I (BMS431)	Not available this year	6
Laboratory Medicine Practice II (BMS432)	Not available this year	6
Medical Immunology and Molecular Genetics (BMS211)	MURDOCH: S2-internal	3
Medical Microbiology (BMS212)	MURDOCH: S1-internal	3
Parasitology: People, Pets and Wildlife (BMS316)	MURDOCH: S2-internal	3
Pathological Basis of Disease (BMS314)	MURDOCH: S1-internal	3

### Breadth Units University-Wide

### Points

Carbon and Climate: A Wicked Problem (BRD203)	MURDOCH: S2-internal, S2-external	3
Creativity and Innovation (BRD209)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Crime through the Ages (BRD205)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Drugs in Society (BRD202)	MURDOCH: S2-internal, S2-external	3
Food Matters (BRD201)	MURDOCH: S2-internal, S2-external	3
Transitions to Post Carbon Society (BRD306)	MURDOCH: S2-internal, S2-external	3
Wellbeing (BRD251)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
World of Sport (BRD210)	MURDOCH: S2-internal, S2-external	3

### Business (Graduate)

### Points

Accounting for Managers (MBS539)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Accounting for Managers (MBS5392)	MURDOCH: SUM1-internal, U2-internal, U2-external	3
Accounting Processes (MBS544)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Accounting Theory and Governance (MBS679)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Acquisition of Human Resources (MBS688)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TMD-internal KAPLAN-SGP: TMA-internal	3
Advanced Economic Analysis: Honours (MBS545)	MURDOCH: S2-internal	3
Advanced Honours Research Preparation (MBS517)	MURDOCH: S1-internal, S2-internal	3
Advanced Honours Topic A (MBS516)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Advanced Honours Topic B (MBS512)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Advanced Honours Topic in Economics (MBS500)	Not available this year	3
Auditing (MBS680)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Business and Governance Research Practicum (MBS643)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external	6
Business and Governance Research Practicum (MBS644)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external	9
Business and Governance Research Practicum (MBS649)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Business Finance (MBS546)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Business Professional Placement (MBS654)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	6

Business Valuation (MBS665)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Business, Society and the Environment (MBS662)	MURDOCH: S1-internal, S1-external DUBAI-ISC: TMD-internal KAPLAN-SGP: TMA-internal	6
Capstone Consultancy Project (MBS639)	Not available this year	6
Contemporary Advances in Economics: Theory and Applications - Honours (MBS597)	MURDOCH: S1-internal	3
Contemporary Industry Trends and Challenges (MBS592)	Not available this year	3
Corporate Accounting (MBS678)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Creating Value for Organisations (MBS628)	Not available this year	3
Cross-Cultural Consumer Behaviour (MBS575)	MURDOCH: AU2-internal	3
Cultural Competency Within and Across Organisations (MBS596)	Not available this year	3
Data, Metrics, Reporting and Analytics (MBS603)	MURDOCH: S2-internal, S2-external	3
Decision Neuroscience Neuromarketing (MBS690)	Not available this year	3
Developing High Performance Work Systems (MBS602)	MURDOCH: T2-internal, T2-external	3
Developing Strategic Intelligence (MBS594)	Not available this year	3
Digital Business (MBS667)	Not available this year	3
Doctor of Business Administration Thesis (MBS700)	MURDOCH: S1-internal, S2-internal	12
Economics and Business Strategy (MBS686)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Effective Leadership (MBS687)	Not available this year	3
Effective Leadership (MBS6872)	MURDOCH: SUM1-internal, U2-internal, U2-external, W-internal, W-external	3
Employment Relations and Asia Pacific Contexts (MBS624)	KAPLAN-SGP: TMA-internal	3
Entrepreneurship and Innovation Management (MBS673)	MURDOCH: W-internal, W-external DUBAI-ISC: TSD-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Financial Management Decision Making (MBS536)	MURDOCH: S1-internal	3
Food Systems and Agriculture Business (MBS698)	Not available this year	3
Foundations of Effective Leadership (MBS598)	Not available this year	3
Global Business (MBS6611)	DUBAI-ISC: TMD-internal	6
Global Business in the Asian Century (MBS661)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	6
Global Media Communication (MBS576)	MURDOCH: SP21-internal	3
Honours Thesis (MBS519)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Thesis in Economics (MBS505)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	12
Human Resource Management Perspectives (MBS555)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
International Business Negotiations (MBS636)	Not available this year	3
International Immersion (MBS638)	Not available this year	3
International Marketing Management (MBS573)	MURDOCH: AU2-internal	3
Leadership Dynamics: From Follower to Leader (MBS601)	MURDOCH: T2-internal, T2-external	3
Leading and Managing Nonprofit Organisations (MBS651)	MURDOCH: SP17-internal, SP17-external	3
Leading from Strategy to Operations (MBS608)	MURDOCH: T3-internal, T3-external	3
Leading the Engaged Enterprise (MBS663)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TJA-internal, TSA-internal	6
Management Accounting (MBS669)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Manager as a Performance Coach (MBS604)	MURDOCH: T2-internal, T2-external	3
Managing a Global Business (MBS613)	Not available this year	3
Managing Remuneration, Benefits and Motivation (MBS668)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Managing Strategic Risk and Projects (MBS684)	Not available this year	6
Managing Uncertainty Through Scenario Planning (MBS607)	MURDOCH: T3-internal, T3-external	3

Managing, Evaluating and Developing Human Resources (MBS535)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Organisational Behaviour and Management (MBS5082)	MURDOCH: SUM-internal, U2-internal, U2-external, W-internal, W-external	3
Organisational Behaviour and Management (MBS538)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external DUBAI-ISC: TJD-internal, TMD-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Organisational Change, Management and Consultancy (MBS568)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TSA-internal	3
People and Performance (MBS591)	Not available this year	3
Postgraduate International Study Tour (MBS672)	Not available this year	3
Principles of Business Governance (MBS518)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Project Management (MBS685)	MURDOCH: S1-internal, W-internal, W-external DUBAI-ISC: TJD-internal KAPLAN-SGP: TMA-internal	3
Qualitative Organisational Research (MBS619)	Not available this year	3
Quantitative Research for Business (MBS659)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Research Preparation for Business (MBS520)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TMA-internal, TSA-internal	3
Rethinking Strategic Value of Markets and Consumers (MBS609)	MURDOCH: T3-internal, T3-external	3
Risk Management (MBS689)	MURDOCH: SUM-internal, SUM-external	3
Special Topics in Business (MBS699)	Not available this year	3
Stakeholder Governance in a Business-Society Ecosystem (MBS637)	Not available this year	3
Strategic Marketing Management (MBS5072)	MURDOCH: SUM-internal, U2-internal, U2-external	3
Strategic Marketing Management (MBS537)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Strategic Research in International Markets (MBS574)	MURDOCH: SP21-internal DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TMA-internal	3
Strategies for Growth and Excellence (MBS664)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TJA-internal, TSA-internal	6
Taxation Principles (MBS614)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3

## Business (Undergraduate)

## Points

Accounting Theory and Accountability (BUS304)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Advanced Human Resource Perspectives (BUS340)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Auditing (BUS306)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Business Analytics and Decision Making (BUS334)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Business Negotiations: An International Perspective (BUS341)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TSA-internal	3
Changing Economies of Asia (BUS272)	KAPLAN-SGP: TMA-internal	4
Chinese Business (BUS243)	KAPLAN-SGP: TMA-internal	4
Commercial Banking (BUS307)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Comparative Corporate Governance and International Operations (BUS284)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

Consumer Behaviour (BUS273)	DUBAI-ISC: TMD-internal	4
Consumer Behaviour (BUS299)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Contemporary Financial Accounting (BUS356)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Corporate Finance (BUS224)	DUBAI-ISC: TMD-internal	4
Corporate Finance (BUS286)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Credit and Lending Decisions (BUS308)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Derivative Securities (BUS325)	DUBAI-ISC: TJD-internal, TSD-internal	4
Derivative Securities (BUS333)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Econometrics (BUS292)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Economics in Society (BUS162)	MURDOCH: S2-internal, S2-external	3
Employment Relations (BUS332)	MURDOCH: S1-internal, S1-external	3
Employment Relations in Asia (BUS351)	KAPLAN-SGP: TMA-internal	3
Finance Law (BUS206)	DUBAI-ISC: TJD-internal, TSD-internal	4
Foundational Mathematics for Business (BUS130)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Foundations of Accounting (BUS170)	MURDOCH: S2-internal, S2-external	3
Foundations of Economics (BUS171)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Foundations of Management and Governance (BUS176)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Foundations of Marketing (BUS183)	MURDOCH: S2-internal, S2-external	3
Human Resource Economics (BUS301)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Integrated Marketing Communications (BUS302)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Integrated Marketing Communications (BUS336)	DUBAI-ISC: TJD-internal, TSD-internal	4
International Finance (BUS322)	DUBAI-ISC: TJD-internal, TSD-internal	4
International Finance (BUS330)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
International Financial Markets and Institutions (BUS390)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
International Management (BUS323)	DUBAI-ISC: TMD-internal	4
International Management (BUS344)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
International Marketing (BUS343)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
International Trade and Development (BUS309)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TSA-internal	3
Introduction to Accounting (BUS160)	DUBAI-ISC: TJD-internal, TSD-internal	3
Introduction to Economics (BUS161)	DUBAI-ISC: TMD-internal	3
Investment Analysis (BUS311)	DUBAI-ISC: TMD-internal	4
Investment Analysis (BUS329)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Knowledge and Organisational Learning (BUS378)	DUBAI-ISC: TJD-internal, TSD-internal	4
Knowledge Management (BUS348)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Macroeconomics A (BUS289)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Macroeconomics B (BUS327)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3

Management Accounting (BUS287)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Marketing and Advertising Law (BUS209)	DUBAI-ISC: TJD-internal, TSD-internal	4
Marketing Research and Analysis (BUS210)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Marketing Research and Analysis (BUS235)	DUBAI-ISC: TMD-internal	4
Microeconomics A (BUS291)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Microeconomics B (BUS318)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Organisation Development and Change (BUS298)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Organisation Development and Human Resources Management (BUS240)	DUBAI-ISC: TMD-internal	4
Organisational Theory and Behaviour (BUS223)	DUBAI-ISC: TJD-internal, TSD-internal	4
Organisational Theory and Behaviour (BUS293)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Principles of Commercial Law (BUS165)	DUBAI-ISC: TJD-internal, TSD-internal	3
Principles of Finance and Banking (BUS140)	DUBAI-ISC: TMD-internal	3
Principles of Human Resources Management (BUS297)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Principles of Management (BUS145)	DUBAI-ISC: TJD-internal, TSD-internal	3
Principles of Marketing (BUS169)	DUBAI-ISC: TMD-internal	3
Professional Internship in Business (BUS358)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	9
Professional Internship in Business (BUS3581)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	3
Professional Internship in Business (BUS3582)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	6
Services Marketing (BUS268)	DUBAI-ISC: TMD-internal	4
Services Marketing (BUS296)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Special Topics in Business (BUS201)	Not available this year	3
Special Topics in Business (BUS2011)	Not available this year	3
Strategic Management (BUS317)	DUBAI-ISC: TJD-internal, TSD-internal	4
Strategic Management (BUS349)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Strategic Marketing (BUS350)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Strategic Marketing (BUS382)	DUBAI-ISC: TMD-internal	4
Taxation (BUS303)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Technology and Accounting Processes (BUS285)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Treasury Management (BUS244)	DUBAI-ISC: TJD-internal, TSD-internal	4
Treasury Management (BUS288)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Work-Based Learning (BUS267)	MURDOCH: S1-internal (quota of 50 places)	3
Workplace Law (BUS228)	DUBAI-ISC: TJD-internal, TSD-internal	4

**Business Law (Graduate)****Points**

Honours Thesis in Business Law (MBL519)	MURDOCH: S1-internal, S2-internal	12
Human Resource Management Law (MBL501)	MURDOCH: S1-internal, S1-external DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TJA-internal, TSA-internal	3

**Business Law (Undergraduate)****Points**



Alternative Dispute Resolution (BSL391)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Company Law (BSL305)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Finance Law (BSL201)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Foundations of Business Law (BSL165)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TSA-internal	3
Marketing and Advertising Law (BSL203)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Tourism and Hospitality Law (BSL204)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Workplace Law (BSL202)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3

### Business Law and Law Masters

### Points

Australian Migration Law (LLM502)	MURDOCH: UA1-internal	3
Australian Visa System (LLM503)	MURDOCH: AU10-internal	3
Health Law (LLM614)	MURDOCH: S1-internal	3
International Law (LLM601)	MURDOCH: S1-internal	3
Legal Practice Placement I (LLM512)	MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)	6
Legal Practice Placement II (LLM513)	MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)	6
Master of Laws (Research) (LLM700)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	24
Migration Law in Practice (LLM555)	MURDOCH: AU11-internal	3
Visa Compliance, Cancellation and Review (LLM504)	MURDOCH: AU10-internal	3

### Business Law and Legal Studies

### Points

Alternative Dispute Resolution (LEG391)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Law, Business and Society (LEG519)	MURDOCH: Y-internal	15
Indigenous Peoples, Law and Society (LEG203)	MURDOCH: S2-internal, S2-external	3
Law and Society (A Medieval Case Study) (LEG236)	Not available this year	3
Law, Justice and Social Policy (LEG100)	MURDOCH: S2-internal, S2-external	3
Legal Costs Assessment (LEG211)	MURDOCH: SUM-internal	3
Social and Welfare Law (LEG323)	MURDOCH: S2-internal, S2-external	3
Special Topics in Legal Studies (LEG300)	Not available this year	3

### Chemistry

### Points

Advanced Projects in Chemistry and Mineral Science (CHE309)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	3
Chemical Analysis (CHE207)	MURDOCH: S1-internal, S1-external	3
Chemistry for Teaching Secondary (7-10) (CHE540)	Not available this year	3
Foundations of Chemistry (CHE144)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Fundamentals of Chemistry (CHE140)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Honours Thesis in Chemistry (CHE500)	MURDOCH: H-internal, Y-internal	18
Introduction to Chemical Concepts (CHE145)	MURDOCH: S2-internal, S2-external	3
Introduction to Forensic Science (CHE103)	MURDOCH: S1-internal	3
Literature Review (CHE576)	MURDOCH: S1-internal, S2-internal	3
Materials Chemistry (CHE304)	MURDOCH: S2-internal, S2-external	3
Organic and Biological Chemistry I (CHE205)	MURDOCH: S2-internal, S2-external	3
Organic and Biological Chemistry II (CHE308)	MURDOCH: S1-internal, S1-external	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Physical Chemistry I (CHE202)	MURDOCH: S1-internal, S1-external	3
Physical Chemistry II (CHE347)	MURDOCH: S2-internal, S2-external	3

<b>Chiropractic</b>		<b>Points</b>
Advanced Study Topics (CHI678)	Not available this year	4
Chiropractic Skills (CHI354)	MURDOCH: S1-internal	3
Chiropractic Skills and Principles III (CHI409)	MURDOCH: T1-internal	2
Clinical Biomechanics (CHI457)	Not available this year	3
Clinical Practicum (CHI499)	Not available this year	12
Clinical Practicum (CHI584)	MURDOCH: Y5-placement	12
Clinical Radiology (CHI420)	MURDOCH: T2-internal (quota of 80 places)	2
Clinical Radiology (CHI440)	Not available this year	3
Decision Making in Clinical Imaging (CHI586)	MURDOCH: T1-internal	2
Diagnosis I (CHI335)	MURDOCH: S1-internal	3
Diagnosis II (CHI336)	MURDOCH: S2-internal	3
Diagnosis III (CHI337)	MURDOCH: S2-internal	3
Differential Diagnosis (CHI456)	Not available this year	3
Dissertation (Research Project) (CHI675)	Not available this year	12
Ethics and Jurisprudence (CHI581)	MURDOCH: T2-internal	2
Ethics, Jurisprudence and Professional Practice Management (CHI467)	Not available this year	3
Food, Nutrition and Health (CHI100)	MURDOCH: S1-external, S2-external	3
Honours Thesis in Chiropractic (CHI550)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	15
Human Anatomy I (CHI108)	MURDOCH: S2-internal	3
Human Anatomy II (CHI255)	MURDOCH: S1-internal	3
Human Anatomy III (CHI234)	MURDOCH: S2-internal	3
Immunology, Genetics and Microbiology (CHI205)	MURDOCH: S1-internal	3
Introduction to Chiropractic (CHI109)	MURDOCH: S1-internal, S2-internal	3
Introduction to Musculoskeletal Human Anatomy (CHI168)	MURDOCH: S1-internal, S2-external	3
Mental Health Issues In Chiropractic Care (CHI488)	MURDOCH: T3-internal	2
Mental Health Issues in Chiropractic Care and Pharmacology (CHI466)	Not available this year	3
Neuromusculoskeletal Rehabilitation in Overview (CHI680)	Not available this year	4
Neuromusculoskeletal Rehabilitation of the Lower Body (CHI682)	Not available this year	4
Neuromusculoskeletal Rehabilitation of the Lower Body II (CHI684)	Not available this year	4
Neuromusculoskeletal Rehabilitation of the Upper Body (CHI683)	Not available this year	4
Neuromusculoskeletal Rehabilitation of the Upper Body II (CHI685)	Not available this year	4
Pharmacology and Applied Nutrition (CHI459)	Not available this year	3
Physical Examination (CHI293)	MURDOCH: S2-internal (quota of 90 places)	3
Physiological Therapeutics (CHI423)	MURDOCH: T3-internal	2
Pre-clinical Practicum (CHI484)	MURDOCH: Y1-internal	6
Pre-clinical Practicum (CHI4841)	Not available this year	0
Primary Practice II: Physical Rehabilitation I (CHI442)	MURDOCH: T1-internal	2
Primary Practice III: Differential Diagnosis I (Musculoskeletal) (CHI443)	MURDOCH: T2-internal	2
Primary Practice IV: Differential Diagnosis II (CHI444)	MURDOCH: T1-internal (quota of 90 places)	2
Primary Practice V: Physical Rehabilitation II (CHI445)	MURDOCH: T2-internal	2
Primary Practice VI: Pharmacology (CHI446)	MURDOCH: T1-internal	2
Primary Practice VI: Pharmacology (CHI447)	Not available this year	3
Principles and Practice of Neuromusculoskeletal Rehabilitation (CHI681)	Not available this year	4
Processes in Human Disease (CHI391)	MURDOCH: S1-internal	3
Professional Practice Management (CHI519)	MURDOCH: T1-internal	2
Professional Practice Management (CHI520)	Not available this year	3
Public Health (CHI458)	Not available this year	3
Public Health (CHI509)	MURDOCH: T2-internal	2

Radiography: Principles and Positioning (CHI421)	MURDOCH: T3-internal	4
Radiography: Principles and Positioning (CHI441)	Not available this year	3
Rehabilitation and Physical Therapy I (CHI448)	Not available this year	3
Rehabilitation and Physical Therapy II (CHI449)	Not available this year	3
Special Topics Review (CHI589)	MURDOCH: T3-internal	2
Sports Biomechanics (CHI674)	Not available this year	4
Sports Nutrition (CHI689)	Not available this year	4
Sports Psychology (CHI679)	Not available this year	4
Technique I (CHI338)	MURDOCH: S2-internal	3
Technique II (CHI339)	MURDOCH: S2-internal	3

### Communication and Media Studies

### Points

Audiences, Users and Participants (CMS203)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Communicating Global Issues (CMS304)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Contemporary Culture (CMS102)	MURDOCH: S2-internal, S2-external	3
Critical Topics in Communication and Media Studies (CMS306)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Honours Thesis in Communication and Media Studies (CMS512)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Communication and Media Studies A (CMS501)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Communication and Media Studies B (CMS502)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Communication (CMS100)	MURDOCH: S1-internal, S1-external	3
Introduction to Media Studies (CMS101)	MURDOCH: S2-internal, S2-external	3
Media Governance and the Public Sphere (CMS305)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Old Media, New Media (CMS202)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Screen: Small, Medium and Large (CMS201)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3

### Communication Management (Masters)

### Points

Communication Management Research Project (MCM680)	MURDOCH: S1-internal, S2-internal, Y-internal	6
Communication Management: Professional Perspectives (MCM683)	Not available this year	6
Critical and Ethical Issues in Communication (MCM501)	MURDOCH: S1-internal	3
Global Media: Asia-Pacific Perspectives (MCM682)	MURDOCH: S2-internal	3
Health Communication (MCM507)	MURDOCH: S1-internal	3
Health Communication Project (MCM608)	MURDOCH: S2-internal	3
People, Corporates and Globalisation (MCM604)	MURDOCH: S2-internal	3
Public Relations, Communication and Culture (MCM605)	MURDOCH: S2-internal	3
Strategic Communication (MCM506)	MURDOCH: S1-internal	3
Web Strategy (MCM502)	MURDOCH: S1-internal	3

### Community Development

### Points

Community Development Dissertation (COD650)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Community Development Internship (COD508)	MURDOCH: S2-internal, S2-external	6
Community Development Theory and Practice (COD545)	MURDOCH: S1-internal, S1-external	3
Creative Ways to Work with Community (COD302)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Community Development (COD569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Community Development A (COD561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Community Development B (COD562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Community Development (COD125)	MURDOCH: S1-internal, S1-external	3
Mining, Communities and Sustainability (COD505)	MURDOCH: S2-internal, S2-external	3
Preparing for Professional Community Practice (COD303)	MURDOCH: S2-internal, S2-external	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Social Policy and Community Action (COD214)	MURDOCH: S1-internal, S1-external	3
Stories of doing Community Work (COD201)	MURDOCH: S2-internal, S2-external	3

<b>Counselling</b>		<b>Points</b>
Art Therapy with Children and Adolescents (CSL577)	Not available this year	3
Case Conceptualisation and Assessment in Counselling (CSL566)	MURDOCH: S1-internal MANDURAH: S2-internal	3
Counselling Adults (CSL583)	MURDOCH: S2-internal	3
Counselling Children and Adolescents (CSL578)	MURDOCH: S2-internal	3
Counselling Placement and Supervision Group 1 (CSL679)	MURDOCH: DE7-placement (quota of 12 places), S1L-placement (quota of 12 places)	6
Counselling Placement and Supervision Group 2 (CSL621)	MURDOCH: DE7-placement (quota of 18 places), S1L-placement (quota of 18 places)	6
Counselling Research Project (CSL620)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	9
Counselling Research Project (CSL677)	MURDOCH: Y-internal	6
Expressive Arts Therapies: Music, Drama and Writing (CSL575)	MANDURAH: S2-internal	3
Group Counselling (CSL581)	MURDOCH: S1-internal MANDURAH: S1-internal	3
Introduction to Creative Arts Therapies in Counselling (CSL576)	MURDOCH: S2-internal	3
Principles of Counselling 1 (CSL582)	MURDOCH: S1-internal MANDURAH: S2-internal	6
Principles of Counselling 2 (CSL684)	MURDOCH: S2-internal	3
Trauma Counselling (CSL674)	MURDOCH: S1-internal	3

<b>Criminology</b>		<b>Points</b>
Advanced Criminology (CRM306)	MURDOCH: S2-internal, S2-external	3
Children and Crime (CRM302)	MURDOCH: S2-internal, S2-external	3
Corrections (CRM202)	MURDOCH: S2-internal, S2-external	3
Crime Science (CRM301)	MURDOCH: U-internal	3
Criminal Behaviour (CRM203)	MURDOCH: S2-internal, S2-external	3
Criminological Research Methods (CRM120)	MURDOCH: S1-internal, S1-external	3
CRM Internships (WIL) (CRM310)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal	3
Culture, Diversity and Crime (CRM307)	MURDOCH: S1-internal	3
Honours Thesis in Criminology (CRM539)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	18
International and Transnational Crimes (CRM219)	MURDOCH: S2-internal, S2-external	3
Introduction to Criminology (CRM100)	MURDOCH: S1-internal, S1-external	3
Policing and Crime Prevention (CRM201)	MURDOCH: S1-internal, S1-external	3
Psychology and Law (CRM389)	MURDOCH: S2-internal, S2-external	3
Special Topics in Criminology (CRM300)	Not available this year	3
Treatment of Criminal Behaviour (CRM388)	MURDOCH: T1-internal, U2-internal (quota of 30 places)	3

<b>Education 'EDN'</b>		<b>Points</b>
Action Learning for Reflective Practitioners (EDN459)	MURDOCH: Y-external	3
Action Learning for Reflective Practitioners (EDN470)	Not available this year	4
Adolescent Health and Development (EDN445)	Not available this year	4
Adolescent Health and Development (EDN4451)	Not available this year	2
Adolescent Health and Development (EDN446)	MURDOCH: S2-internal, S2-external	3
Advanced Principles and Practices in Early Childhood Education (EDN520)	MURDOCH: S1-external	3
Babies and Toddlers Effective Pedagogies and Toddlers Growing and Learning (EDN537)	MURDOCH: S1-external	3
Babies and Toddlers: Growing and Learning (EDN237)	Not available this year	3

Children's Literature in the Classroom (EDN308)	MURDOCH: S2-internal, S2-external	3
Children, Families and Communities (EDN332)	MURDOCH: S2-internal, S2-external	3
Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum (EDN353)	MURDOCH: S1-internal, S1-external	3
Creating and Managing Effective Learning Environments (EDN358)	MURDOCH: S1-internal, S1-external	3
Creed and Sacraments in Catholic Schools (EDN232)	MURDOCH: SB1-internal	3
Critical Perspectives in Early Childhood Education (EDN672)	MURDOCH: S2-external (closed pending cancellation of the offering)	3
Cultural and Linguistic Diversity in the Classroom (EDN405)	Not available this year	3
Current Debates in Education (EDN669)	MURDOCH: S1-internal, S1-external	3
Curriculum Development for Practitioners (EDN588)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external DUBAI-ISC: TJD-internal	3
Designing Early Childhood Learning Environments (EDN538)	MURDOCH: S2-external	3
Diversity and Inclusion (EDN612)	MURDOCH: ST2-internal, ST2-external	3
Drama and the Curriculum (Secondary) (Major) (EDN412)	MURDOCH: S1-internal	4
Dynamics of Cultural Diversity in the Workplace and the Community (EDN546)	MURDOCH: S1-internal	3
Early Childhood Learning Environments (EDN432)	MURDOCH: S1-internal, S1-external	3
Engaging Communities through Drama (EDN304)	MURDOCH: S2-internal	3
English and the Curriculum (Secondary) (Major) (EDN413)	MURDOCH: S1-internal, S1-external	4
English in the Primary Curriculum (EDN565)	MURDOCH: ST3-internal, ST3-external	3
Facilitating Lifelong Learning (EDN540)	MURDOCH: S1-internal, S1-external	6
Final Professional Experience 1: Early Childhood Teaching (K - PP) (EDN434)	MURDOCH: ST2-placement, ST3-placement	3
Final Professional Experience 1: Primary Teaching (EDN4302)	MURDOCH: ST2-placement, ST3-placement	3
Final Professional Experience 1: Secondary Graduate Diploma (EDN511)	MURDOCH: ST2-placement, ST3-placement	3
Final Professional Experience 1: Secondary Teaching (EDN4303)	Not available this year	3
Final Professional Experience 2: Early Childhood Teaching (K - PP) (EDN435)	MURDOCH: ST2-placement, ST3-placement	6
Final Professional Experience 2: Primary Teaching (EDN4300)	MURDOCH: ST2-placement, ST3-placement, ST4-placement	6
Final Professional Experience 2: Secondary Graduate Diploma (EDN510)	MURDOCH: ST2-placement, ST3-placement	6
Final Professional Experience 2: Secondary Teaching (EDN4301)	Not available this year	6
Great Thinkers in Education (EDN679)	Not available this year	3
Health and Physical Education and the Curriculum (Major) (EDN419)	Not available this year	4
Health and Physical Education and the Curriculum (Primary) (EDN464)	MURDOCH: S1-internal	3
ICT in the Classroom (EDN206)	MURDOCH: S2-external	3
Inclusive Education (EDN449)	MURDOCH: S1-external, S2-internal, S2-external	3
Inclusive Education: Contemporary Perspectives and Practices (EDN509)	MURDOCH: S2-internal, S2-external	3
Integrated Curriculum in Primary Schools (HASS/HPE/Arts) (EDN613)	MURDOCH: ST2-internal, ST2-external	3
Integrated Early Childhood Curriculum (EDN354)	MURDOCH: S2-internal, S2-external	3
Integrated Early Childhood Curriculum for Educators (EDN522)	MURDOCH: S2-external	3
International Education: Issues and Practices (EDN519)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TMD-internal, TSD-internal	3
Introduction to Catholic Education (EDN231)	Not available this year	3
Introduction to Health Education (EDN117)	MURDOCH: S1-internal	3
Language and Literacies in the Early Years (EDN461)	MURDOCH: S1-internal, S1-external	3
Language for Learning and Teaching (EDN111)	MURDOCH: S1-internal, S1-external	3
LANTITE - Literacy (EDN298)	MURDOCH: S1-external, S2-external	0
LANTITE - Numeracy (EDN299)	MURDOCH: S1-external, S2-external	0

Learners and Learning Environments (EDN561)	MURDOCH: ST2-internal, ST2-external	3
Learning and Assessment Processes (EDN545)	MURDOCH: S1-internal, S1-external	3
Learning and Teaching (EDN221)	MURDOCH: S1-internal, S1-external	3
Learning and Teaching in Educational Communities (EDN300)	MURDOCH: ST1-placement, ST2-placement, ST3-placement, ST4-placement	3
Learning and Teaching in Educational Communities (IB and International Schools) (EDN517)	MURDOCH: S2-external	6
Literacies in the Early Years (EDN421)	Not available this year	4
Literacy and Learning (EDN563)	MURDOCH: S1-internal, S1-external	3
Living and Learning with Technology (EDN113)	MURDOCH: S1-internal, S1-external	3
Mathematics and Numeracy in the Early Years (EDN462)	MURDOCH: S1-internal, S1-external	3
Mathematics and the Curriculum (Secondary) (Major) (EDN414)	MURDOCH: S1-external	4
Mathematics for Teaching (EDN110)	MURDOCH: S1-internal, S1-external	3
Mathematics in the Primary Curriculum (EDN564)	MURDOCH: ST4-internal, ST4-external	3
Media and the Curriculum (Major) (EDN415)	Not available this year	4
Mentoring (EDN671)	MURDOCH: UA4-internal DUBAI-ISC: TMD-internal	3
Mixed Methods and Quantitative Research (EDN781)	MURDOCH: S2-internal, S2-external	3
Numeracy and Learning (EDN562)	MURDOCH: ST3-internal, ST3-external	3
Nurturing Creativity in the Early Years (EDN168)	MURDOCH: S2-internal, S2-external	3
Opportunities with e-learning (EDN575)	MURDOCH: W-internal (quota of 30 places)	3
Pedagogical Leadership in the Early Years (EDN521)	MURDOCH: S1-external (closed pending cancellation of the offering)	3
Pedagogies for Literacy and Numeracy in the Early Years (EDN566)	MURDOCH: S1-external	3
Physical Education (EDN116)	MURDOCH: S2-internal	3
Practical Methods of Instruction (EDN541)	MURDOCH: S1-internal, S1-external DUBAI-ISC: TJD-internal	3
Prayer and Morality in Catholic Schools (EDN233)	Not available this year	3
Principles and Practices in Early Childhood Education (EDN355)	MURDOCH: S1-internal, S1-external	3
Professional Development Portfolio (EDN618)	MURDOCH: S1-external DUBAI-ISC: TMD-internal	3
Professional Experience in a Long Day-care Centre (EDN239)	Not available this year	3
Professional Experience in Early Childhood Education: Graduate (EDN500)	MURDOCH: ST2-placement, ST3-placement	6
Professional Experience in Early Learning and Care Centres: Graduate (EDN536)	MURDOCH: ST2-placement, ST4-placement	6
Professional Experience in Early Learning Centres (EDN539)	MURDOCH: ST2-placement, ST4-placement	3
Professional Experience: BEd Secondary (EDN305)	MURDOCH: S1-internal	3
Professional Experience: BEd Secondary (EDN410)	MURDOCH: S1-external	3
Professional Experience: BEd Secondary (EDN4101)	Not available this year	2
Professional Experience: BEd Secondary (HPE) (EDN4103)	Not available this year	2
Professional Experience: BEd Secondary Teaching (EDN2101)	MURDOCH: S2-external	3
Professional Experience: English in Practice (EDN2104)	MURDOCH: S2-placement	3
Professional Experience: Graduate Diploma Secondary (EDN514)	MURDOCH: ST2-placement	3
Professional Experience: Integrated Curriculum in Practice (EDN310)	MURDOCH: ST3-placement	3
Professional Experience: Mathematics in Practice (EDN3102)	MURDOCH: S2-internal, S2-external	3
Professional Experience: Perspectives on Curriculum (EDN465)	MURDOCH: ST2-placement	3
Professional Experience: Postgraduate (EDN5100)	MURDOCH: ST2-placement (closed), ST3-placement (closed)	3
Professional Experience: Primary Graduate (EDN2151)	MURDOCH: ST2-placement	2
Professional Experience: Programming Across the Curriculum (EDN4100)	MURDOCH: S1-internal, S1-external	3
Professional Experience: Strategies for Effective Teaching (EDN567)	MURDOCH: ST4-internal, ST4-external	3
Professional Internship A: Differentiation within Diverse Contexts (EDN611)	MURDOCH: S1L-internal, S1L-external	3
Professional Internship B: Research in Practice (EDN615)	MURDOCH: DE7-internal, DE7-external	6

Research for Teaching (EDN616)	MURDOCH: ST1-internal, ST1-external	3
Research Project (EDN617)	MURDOCH: DE7-internal, DE7-external	3
Science and the Curriculum (Secondary) (Major) (EDN417)	MURDOCH: S1-internal, S1-external	4
Science in the Primary Curriculum (EDN614)	MURDOCH: ST1-internal, ST1-external	3
Second/Foreign Languages and the Curriculum (Major) (EDN416)	MURDOCH: S1-internal, S1-external	4
Society and Environment Curriculum (Secondary) (Major) (EDN418)	MURDOCH: S1-internal, S1-external	4
Special Topics in Education (EDN211)	Not available this year	3
Special Topics in Education (EDN411)	Not available this year	4
Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills (EDN311)	MURDOCH: SB7-internal (closed as the offering has reached capacity)	3
Sport Education (EDN356)	MURDOCH: S1-internal	3
Sports Practicum (EDN357)	MURDOCH: S2-internal	3
Strategies for Effective Learning and Teaching (EDN568)	MURDOCH: ST3-internal, ST3-external	3
Teaching Drama (EDN371)	MURDOCH: S1-internal	3
Teaching Drama in Secondary Schools (EDN552)	MURDOCH: S1-internal	3
Teaching English (EDN372)	MURDOCH: S1-internal, S1-external	3
Teaching English and Literacy in Early Childhood and Primary (EDN235)	MURDOCH: S1-internal, S1-external	3
Teaching English and Literacy to Students with Learning Difficulties and Disabilities (EDN328)	MURDOCH: S1-internal, S1-external	3
Teaching English in Secondary Schools (EDN553)	MURDOCH: S1-internal, S1-external	3
Teaching Health (EDN378)	MURDOCH: S1-internal	3
Teaching Health and Physical Education in Early Childhood and Primary (EDN248)	MURDOCH: S2-internal, S2-external	3
Teaching Humanities and Social Sciences (EDN377)	MURDOCH: S1-internal, S1-external	3
Teaching Humanities and Social Sciences in Early Childhood and Primary (EDN441)	MURDOCH: S1-internal, S1-external	3
Teaching Humanities and Social Sciences in Secondary Schools (EDN558)	MURDOCH: S1-internal, S1-external	3
Teaching Mathematics (EDN373)	MURDOCH: S1-external	3
Teaching Mathematics and Numeracy to Students with Learning Difficulties (EDN329)	MURDOCH: S2-internal, S2-external	3
Teaching Mathematics in Early Childhood and Primary (EDN351)	MURDOCH: S1-internal, S1-external	3
Teaching Mathematics in Secondary Schools (EDN554)	MURDOCH: S1-internal, S1-external	3
Teaching Physical Education (EDN374)	MURDOCH: S1-internal	3
Teaching Science (EDN376)	MURDOCH: S1-internal, S1-external	3
Teaching Science in Early Childhood and Primary (EDN442)	MURDOCH: S1-internal, S1-external	3
Teaching Science in Secondary Schools (EDN557)	MURDOCH: S1-internal, S1-external	3
Teaching Second/Foreign Languages (EDN375)	MURDOCH: S1-internal, S1-external	3
Teaching Second/Foreign Languages (EDN556)	MURDOCH: S1-internal, S1-external DUBAI-ISC: TSD-internal	3
Teaching Secondary Mathematics (7-10) (EDN542)	MURDOCH: S2-external	3
Teaching Secondary Science (7-10) (EDN549)	MURDOCH: S2-external	3
Teaching Senior Secondary Drama (EDN471)	Not available this year	3
Teaching Senior Secondary English (EDN472)	Not available this year	3
Teaching Senior Secondary Health (EDN478)	Not available this year	3
Teaching Senior Secondary Humanities and Social Sciences (EDN477)	Not available this year	3
Teaching Senior Secondary Mathematics (EDN473)	Not available this year	3
Teaching Senior Secondary Physical Education (EDN474)	Not available this year	3
Teaching Senior Secondary Science (EDN476)	Not available this year	3
Teaching Senior Secondary Second/Foreign Languages (EDN475)	Not available this year	3
Teaching Students with High Incidence Disabilities (EDN330)	MURDOCH: SUM-internal, SUM-external	3
Teaching The Arts in Early Childhood and Primary (EDN236)	MURDOCH: S2-internal, S2-external	3
Tertiary and Adult Education Policy (EDN544)	MURDOCH: S2-internal, S2-external	3
Thinking Mathematically (EDN114)	MURDOCH: S2-internal, S2-external	3
Thinking Scientifically (EDN115)	MURDOCH: S2-internal, S2-external	3

*Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.*

Transition to Teaching (EDN550)	MURDOCH: S2-internal, S2-external, SB1-internal (closed), ST1-internal	3
Transition to Teaching (EDN5501)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3

**Education 'EDU'****Points**

Adult Learning in Education and Work (EDU645)	MURDOCH: S2-external	3
Advanced Educational Research Seminar (EDU701)	Not available this year	3
Advanced Qualitative Approaches to Research (EDU743)	MURDOCH: S1-internal, S1-external	3
Australian Indigenous Education (EDU621)	MURDOCH: S1-internal, S1-external	3
Critical Policy Analysis and Teachers' Work (EDU658)	Not available this year	3
Different Englishes and Interpretations of Language, Culture and Identity (EDU604)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TSD-internal	3
Education Project (EDU660)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal	6
Introduction to Research for Educators (EDU610)	MURDOCH: S1-internal, S1-external, S2-external DUBAI-ISC: TJD-internal, TSD-internal	6
Learning and Teaching with ICT (EDU615)	MURDOCH: S2-external DUBAI-ISC: TSD-internal	3
Primary Curriculum IV (Humanities and Social Science, Science) (EDU286)	Not available this year	4
Primary Curriculum IV (Humanities and Social Science, Science) (EDU2861)	Not available this year	3
Professional Experience: Primary BEd (EDU3154)	Not available this year	2
Professional Internship Prelim: Prim BEd/Inclusive Ed (EDU383)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship Prelim: Primary BEd/ECE (EDU379)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship Prelim: Primary GradDipEd (EDU291)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship Prelim: Secondary BEd (EDU387)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship Prelim: Secondary GradDipEd (EDU293)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship Preliminary: Primary BEd (EDU377)	MURDOCH: ST2-placement, ST3-placement	2
Professional Internship: Primary BEd (EDU378)	MURDOCH: ST2-placement, ST3-placement	6
Professional Internship: Primary BEd/ECE (EDU381)	MURDOCH: ST2-placement, ST3-placement	6
Professional Internship: Primary BEd/Inclusive Ed (EDU384)	MURDOCH: ST2-placement, ST3-placement	6
Professional Internship: Primary GradDipEd (EDU292)	MURDOCH: ST2-placement, ST3-placement	4
Professional Internship: Secondary BEd (EDU389)	MURDOCH: ST2-placement, ST3-placement	6
Professional Internship: Secondary GradDipEd (EDU297)	MURDOCH: ST2-placement, ST3-placement	4
Research in Education (Research Dissertation) (EDU700)	MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external	12
Research in Education (Research Dissertation) (EDU900)	MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external ROCKINGHAM: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external	12
Special Topics in Education (EDU611)	Not available this year	3
Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills and Research (EDU511)	MURDOCH: SB7-internal (closed as the offering has reached capacity)	3
Student Engagement and Community Learning (EDU661)	MURDOCH: S1-external (closed)	3
Teaching, Learning and Working in Culturally Diverse Environments (EDU616)	MURDOCH: S1-external DUBAI-ISC: TJD-internal	3

**Engineering****Points**

Advanced Power Electronics (ENG558)	MURDOCH: S1-internal	3
Advanced Mineral Processing (ENG566)	MURDOCH: S1-internal, S1-external	3



Advanced Process and Instrumentation Engineering (ENG308)	MURDOCH: S1-internal	3
Advanced Water Treatment Design (ENG603)	MURDOCH: S1-internal	3
Applied Photovoltaics (ENG337)	MURDOCH: S2-internal	3
BioEnergy and Resource Recovery (ENG342)	MURDOCH: S2-internal, S2-external (closed)	3
Biological Water Treatment Operations (ENG515)	MURDOCH: S2-internal	3
Biomedical Instrumentation (ENG371)	Not available this year	4
Biomedical Signal Processing (ENG372)	Not available this year	4
Biomedical Systems Engineering (ENG373)	Not available this year	4
Chemical Process Kinetics (ENG255)	MURDOCH: S1-internal, S1-external	3
Chemical Process Safety (ENG520)	MURDOCH: S1-internal, S1-external	3
Circuits and Systems I (ENG125)	MURDOCH: S2-internal	3
Circuits and Systems II (ENG297)	MURDOCH: S1-internal	3
Computer Based Measurement and Control (ENG502)	MURDOCH: S2-internal	3
Control System Investigation (ENG668)	MURDOCH: S1-internal	3
Control Systems and Process Dynamics (ENG299)	MURDOCH: S2-internal	3
Decentralised and Industrial Water Treatment (ENG602)	MURDOCH: S1-internal	3
Desalination Technology and Modelling (ENG601)	MURDOCH: S1-internal	3
Design Project (ENG550)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	3
Discrete Time Systems (ENG294)	MURDOCH: S2-internal, SUM-internal, U-internal	3
Distributed Energy Resources and Demand Response (ENG557)	MURDOCH: S2-internal	3
Electrical Power Systems Design (ENG449)	MURDOCH: S1-internal	3
Electrical Safety (ENG519)	MURDOCH: S2-internal, S2-external	3
Electromechanical Energy Conversion (ENG317)	MURDOCH: S1-internal	3
Energy Supply and Management (ENG338)	MURDOCH: S1-internal	3
Energy, Mass and Flow (ENG192)	MURDOCH: S2-internal, S2-external	3
Engineering Computing Systems (ENG109)	MURDOCH: S2-internal	3
Engineering Design (ENG428)	Not available this year	4
Engineering Design Project (ENG457)	MURDOCH: S2-internal	6
Engineering Finance, Management and Law (ENG336)	MURDOCH: S2-internal	3
Engineering Honours Thesis (ENG470)	MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal	12
Engineering Internship (ENG450)	MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal	12
Engineering Law, Management and Ethics (ENG453)	Not available this year	4
Engineering Masters Project (ENG615)	MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal	12
Engineering Systems Projects (ENG396)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	6
Engineering Technology Project (ENG310)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	3
Engineering Thermodynamics (ENG202)	MURDOCH: S1-internal, S1-external	3
Engineering Thesis (ENG460)	MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal	12
Environmental Engineering Design (ENG4281)	Not available this year	4
Environmental Engineering Design (ENG452)	MURDOCH: S1-internal	3
Environmental Technology for Sustainability (ENG300)	MURDOCH: S2-internal, S2-external	3
Environmental Water Chemistry (ENG507)	MURDOCH: S1-internal	3
Extractive Metallurgy I (ENG527)	MURDOCH: S1-internal, S1-external	3
Extractive Metallurgy II (ENG528)	MURDOCH: S2-internal, S2-external	3
Fire and Explosion Safety (ENG518)	MURDOCH: S2-internal, S2-external	3
Fluid Mechanics (ENG201)	MURDOCH: S2-internal, S2-external	3
Hazard, Risk and Project Management (ENG691)	MURDOCH: S1-internal, S2-internal (closed), U-internal	3
Hazard, Safety and Environmental Management (ENG456)	MURDOCH: S1-internal	3
Heat and Mass Transfer (ENG203)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Mineral Science (ENG539)	MURDOCH: H-internal, Y-internal	18
Hydrometallurgy (ENG326)	MURDOCH: S2-internal, S2-external	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Industrial Computer Systems (ENG617)	MURDOCH: S1-internal, S2-internal	3
Industrial Computer Systems Design (ENG447)	MURDOCH: S1-internal	3
Industrial Computer Systems Design (ENG454)	Not available this year	4
Industrial Signals and Systems (ENG514)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	3
Instrument and Communication Systems (ENG321)	MURDOCH: S2-internal	3
Instrumentation and Communication (ENG564)	MURDOCH: S2-internal	3
Instrumentation and Control I (ENG525)	MURDOCH: S1-internal	3
Instrumentation and Control II (ENG508)	MURDOCH: S2-internal	3
Instrumentation and Control Systems Design (ENG420)	Not available this year	4
Instrumentation and Control Systems Design (ENG445)	MURDOCH: S1-internal	3
Introduction to the Minerals Industry (ENG193)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Measurement and Uncertainty Analysis (ENG670)	MURDOCH: S1-internal, S2-internal, SUM-internal	3
Mineral Processing I (ENG328)	MURDOCH: S1-internal, S1-external	3
Mineral Processing II (ENG329)	MURDOCH: S2-internal, S2-external	3
Mineralogy for Metallurgists (ENG565)	MURDOCH: S2-internal, S2-external	3
Physicochemical Water Treatment Operations (ENG510)	MURDOCH: S2-internal	3
PLC Applications (ENG501)	MURDOCH: S1-internal	3
PLC Systems (ENG311)	MURDOCH: S1-internal	3
Pollution and its Control (ENG221)	MURDOCH: S1-internal, S1-external	3
Power Electronic Converters and Systems (ENG318)	MURDOCH: S1-internal	3
Power System Economics and Electricity Markets (ENG561)	MURDOCH: S2-internal	3
Power System Modelling and Analysis (ENG556)	MURDOCH: S1-internal	3
Power Systems Planning, Protection and Control (ENG682)	MURDOCH: S1-internal	3
Power Systems Protection and Control (ENG451)	MURDOCH: S1-internal	3
Power Systems Protection and Control (ENG455)	Not available this year	4
Power Transmission and Distribution Networks (ENG323)	MURDOCH: S2-internal	3
Practical Metallurgical Processing (ENG562)	MURDOCH: H-external, Y-external	6
Principles of Electronic Instrumentation (ENG207)	MURDOCH: S2-internal	3
Principles of Mineral Processing (ENG324)	MURDOCH: S1-internal, S1-external	3
Principles of Process Engineering (ENG298)	MURDOCH: S1-internal	3
Principles of Unit Operations (ENG224)	MURDOCH: S1-internal, S1-external	3
Process Control and Safety Systems (ENG446)	MURDOCH: S1-internal	3
Process Control Engineering I (ENG309)	MURDOCH: S1-internal	3
Process Control Engineering II (ENG322)	MURDOCH: S2-internal	3
Process Mineralogy (ENG205)	MURDOCH: S1-internal, S1-external	3
Process Unit Operations (ENG524)	MURDOCH: S1-internal, S1-external	3
Processes, Simulation and Instrumentation (ENG563)	MURDOCH: S1-internal	3
Pyrometallurgy (ENG325)	MURDOCH: S1-internal, S1-external	3
Reactor Engineering (ENG335)	MURDOCH: S1-internal, S1-external	3
Real Time and Embedded Systems (ENG319)	MURDOCH: S2-internal	3
Renewable Energy Systems Engineering (ENG442)	MURDOCH: S1-internal	3
Research Project and Thesis (ENG458)	MURDOCH: H-internal, Y-internal	12
SCADA and Systems Architecture (ENG448)	MURDOCH: S1-internal	3
Solar Thermal and Biomass Engineering (ENG441)	MURDOCH: S1-internal	3
Sustainable Urban Water Systems (ENG459)	MURDOCH: S1-internal	3
Water Conservation and Auditing (ENG341)	MURDOCH: S1-internal, S1-external	3
Water Engineering Intuition and Analysis (ENG516)	MURDOCH: S1-internal	3
Water Regulation, Finance and Management (ENG509)	MURDOCH: S1-internal	3
Water Treatment Operations (ENG343)	MURDOCH: S2-internal	3
Water Treatment Technology Practical (ENG517)	MURDOCH: S2-internal	3
Wind and Hydro Power Systems (ENG339)	MURDOCH: S2-internal	3

**English****Points**

Acting and Production (EGL239)	MURDOCH: S1-internal	3
Advanced Studies in Theatre and Performance (EGL349)	MURDOCH: S2-internal	3

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

Australian Literature and Film (EGL235)	MURDOCH: S1-internal, S1-external	3
Children's Theatre (EGL240)	MURDOCH: S1-internal	3
Comparative Theatre (EGL342)	MURDOCH: S1-internal	3
Contemporary Fiction Writing (EGL343)	MURDOCH: S1-internal, S1-external	3
Drama, Theatre and Performance (EGL106)	MURDOCH: S2-internal	3
Great Books Past and Present 1 (EGL252)	MURDOCH: S1-internal, S1-external	3
Great Books Past and Present 2 (EGL345)	MURDOCH: S2-internal, S2-external	3
Honours Dissertation Preliminary (EGL569)	MURDOCH: S1-internal	3
Honours Thesis in English and Creative Writing (EGL599)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Thesis in Theatre and Drama (EGL589)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in English and Creative Writing (EGL591)	MURDOCH: S1-internal	3
Honours Topic in Theatre and Drama (EGL581)	MURDOCH: S1-internal	3
Literary Theory (EGL346)	Not available this year	3
Performance and Creative Arts (EGL236)	MURDOCH: S2-internal	3
Popular Literature and Science Fiction (EGL230)	MURDOCH: S2-internal, S2-external	3
Professional Writing and Editing (EGL232)	MURDOCH: S2-internal	3
Project in Creative Writing (EGL220)	MURDOCH: S1-internal, S1-external	3
Shakespeare (EGL348)	MURDOCH: S2-internal, S2-external	3
Sonnet to Song: Understanding Poetry (EGL344)	MURDOCH: S2-internal, S2-external	3
Telling True Stories (EGL233)	MURDOCH: S1-internal	3
Turning Points in Literature (EGL121)	MURDOCH: S1-internal, S1-external	3
Writing and Creativity (EGL122)	MURDOCH: S2-internal, S2-external	3

## Environmental Science

## Points

Advanced Ecology (ENV526)	MURDOCH: S2-external	3
Advanced Protected Area Management and Planning (ENV637)	MURDOCH: S1-internal, S1-external	3
Atmospheric Science (ENV242)	MURDOCH: S1-internal, S1-external	3
Climate Change Adaptation: Ecosystems and Societies (ENV680)	MURDOCH: S2-internal, S2-external	3
Coastal and Marine Management (ENV333)	MURDOCH: S2-internal (quota of 60 places)	3
Comparative Environmental Policy and Law (ENV552)	MURDOCH: S1-internal	3
Conservation Science (ENV638)	Not available this year	3
Ecology (ENV241)	MURDOCH: S2-internal, S2-external	3
Engaging with a Sustainable Future (ENV536)	MURDOCH: S2-internal, S2-external	3
Environmental Assessment and Management (ENV557)	MURDOCH: S1-internal, S1-external	3
Environmental Management (ENV331)	MURDOCH: S2-internal, S2-external	3
Environmental Monitoring (ENV558)	MURDOCH: S2-internal, S2-external	3
Environmental Policy and Law (ENV328)	MURDOCH: S1-internal, S1-external	3
Environmental Policy for the 21st Century (ENV616)	MURDOCH: S1-internal, S1-external	3
Environmental Restoration (ENV334)	MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)	3
Environmental Science Masters Project (ENV600)	MURDOCH: H-internal, H-external, Y-internal, Y-external	8
Environmental Science Masters Project (ENV690)	MURDOCH: H-internal, H-external, Y-internal, Y-external	12
Environmental Science Topics (ENV527)	MURDOCH: S1-internal, S1-external, S2-external	3
Foundations of the Environment (ENV102)	MURDOCH: S2-internal, S2-external	3
GIS for Environmental Management and Planning (ENV303)	MURDOCH: S2-internal, S2-external	3
Global and Regional Sustainability (ENV245)	MURDOCH: S2-internal, S2-external	3
Land and Water Management (ENV554)	MURDOCH: S1-internal, S1-external	3
Managing Wetlands and Water (ENV332)	MURDOCH: S2-internal, S2-external	3
Marine Science Topics (ENV539)	Not available this year	3
Modelling the Environment (ENV684)	Not available this year	3
Nature-Based Tourism (ENV278)	MURDOCH: S1-internal, S1-external	3
Oceanography and Marine Pollution (ENV244)	MURDOCH: S2-internal (quota of 50 places)	3
Principles of Environmental Impact Assessment (ENV556)	MURDOCH: S1-internal, S1-external	3
Protected Area Management and Planning (ENV246)	MURDOCH: S1-internal, S1-external	3
Special Topics in Environmental Science (ENV330)	Not available this year	3
Sustainability Assessment (ENV617)	MURDOCH: S1-internal, S1-external	3
Sustainable Urban Water Systems (ENV318)	Not available this year	4

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Water and Earth Science (ENV243) MURDOCH: S1-internal, S1-external 3

### Exercise Science

### Points

Acquisition of Skills and Motor Control (EXS205)	MURDOCH: S2-internal	3
Advanced Skills and Motor Control (EXS305)	MURDOCH: S1-internal	3
Advanced Sport and Exercise Psychology (EXS301)	MURDOCH: S2-internal	3
Advanced Topics in Exercise Physiology (EXS504)	MURDOCH: T3-internal	3
Advanced Topics in Exercise Physiology (EXS569)	MURDOCH: T3-internal	2
Biomechanics I (EXS204)	MURDOCH: S2-internal	3
Biomechanics II (EXS304)	MURDOCH: S2-internal	3
Cardiopulmonary Rehabilitation (EXS501)	MURDOCH: T1-internal	3
Cardiopulmonary Rehabilitation (EXS552)	MURDOCH: T1-internal	2
Clinical Research in Exercise Physiology (EXS505)	MURDOCH: S1-internal	3
Exercise Physiology I (EXS202)	MURDOCH: S1-internal	3
Exercise Physiology II (EXS302)	MURDOCH: S2-internal	3
Exercise Physiology Practicum (EXS509)	MURDOCH: Y1-placement (quota of 40 places)	6
Exercise Physiology Practicum (EXS570)	MURDOCH: Y1-placement	12
Exercise Science Practicum (EXS309)	MURDOCH: H-placement, Y-placement	3
Exercise Science Practicum (EXS390)	MURDOCH: H-placement, Y-placement	4
Exercise, Programming and Prescription (EXS303)	MURDOCH: S1-internal	3
Functional Human Anatomy (EXS206)	MURDOCH: S1-internal	3
Health, Fitness and Performance Assessment (EXS203)	MURDOCH: S1-internal	3
Honours Thesis in Exercise Physiology (EXS560)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	15
Honours Thesis in Movement Science (EXS594)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	15
Honours Thesis in Sports and Health Science (EXS593)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	15
Human Physiology (EXS102)	MURDOCH: S2-internal	3
Introduction to Sports Science (EXS124)	MURDOCH: S1-internal	3
Metabolic Rehabilitation (EXS502)	MURDOCH: T2-internal	3
Metabolic Rehabilitation (EXS551)	MURDOCH: T2-internal	2
Neuromuscular Rehabilitation (EXS503)	MURDOCH: T2-internal	3
Neuromuscular Rehabilitation (EXS553)	MURDOCH: T2-internal	2
Physical Assessment and Rehabilitation (EXS306)	MURDOCH: S1-internal	3
Research Methods for Exercise Science (EXS590)	MURDOCH: T3-internal	3
Research Methods in Exercise and Rehabilitation Sciences (EXS691)	MURDOCH: S1-internal	9
Sport and Exercise Psychology (EXS201)	MURDOCH: S1-internal	3
Strength and Resistance Training (EXS103)	MURDOCH: S2-internal	3

### Extractive Metallurgy

### Points

Extractive Metallurgy (EXM357)	Not available this year	4
--------------------------------	-------------------------	---

### Foundation

### Points

Next Life (FDN107)	DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal	3
--------------------	---	---

### Games Art and Design

### Points

3D Animation (GAD365)	MURDOCH: S2-internal	3
3D Modelling (GAD164)	MURDOCH: S1-internal	3
Advanced 3D Modelling (GAD363)	MURDOCH: S1-internal	3
Animation (GAD241)	MURDOCH: S1-internal	3
Critical Games, Play and Design (GAD232)	MURDOCH: S2-internal	3
Digital Painting (GAD374)	MURDOCH: S1-internal	3
Drawing (GAD172)	MURDOCH: S1-internal, S2-internal	3

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

Drawing Studio (GAD373)	MURDOCH: S2-internal	3
Games and Apps Design and Production (GAD501)	MURDOCH: S1-internal	3
Games and Apps Production Project (GAD502)	MURDOCH: S2-internal	6
Games Art (GAD261)	MURDOCH: S1-internal	3
Games Art and Design Professional Placement (GAD325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Games Design Studio (GAD375)	MURDOCH: S1-internal	3
Games Project (GAD362)	MURDOCH: S2-internal	3
Honours Thesis in Games Art and Design (GAD569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Games Art and Design A (GAD567)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Games Art and Design B (GAD568)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Games Art and Design (GAD154)	MURDOCH: S2-internal	3

## History

## Points

Cold War 1945 - 1991: A Global History (HIS324)	MURDOCH: S2-internal, S2-external	3
Creating History (HIS300)	MURDOCH: S2-internal, S2-external	3
Crime and Punishment Since 1700 (HIS204)	Not available this year	3
Earth, Fire, Wind and Water: Australian Environmental History (HIS256)	Not available this year	3
Europe Under the Dictators (HIS259)	Not available this year	3
Hollywood and History (HIS250)	Not available this year	3
Honours Seminar in History (HIS563)	MURDOCH: S1-internal	3
Honours Thesis in History (HIS519)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in History (HIS511)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to History (HIS181)	MURDOCH: S1-internal, S1-external	3
Making of the Modern World (HIS182)	MURDOCH: S2-internal, S2-external	3
Modern Japan (HIS310)	Not available this year	3
Peasants, Rebels and Leviathan: Modern Southeast Asian History (HIS334)	MURDOCH: S1-internal, S1-external	3
Soldiers and Civilians: War in the Pacific 1941-1945 (HIS258)	MURDOCH: S2-internal, S2-external	3
Special Topics in History (HIS2871)	Not available this year	3
Spies, Saboteurs and Secret Agents (HIS257)	MURDOCH: S1-internal, S1-external	3
The Empire Strikes Back: Imperialism and Colonialism in Modern History (HIS200)	MURDOCH: S2-internal, S2-external	3
The Vietnam Wars (HIS305)	Not available this year	3
Vision Splendid: An Alternative History of Australia (HIS302)	Not available this year	3

## Indonesian

## Points

Indonesian 1 (IND101)	MURDOCH: S1-internal, S1-external	3
Indonesian 2 (IND102)	MURDOCH: S2-internal, S2-external	3
Indonesian 3 (IND201)	MURDOCH: UA3-internal, UA3-external	3
Indonesian 4 (IND202)	MURDOCH: AU1-internal, AU1-external	3
Indonesian 5 (IND203)	MURDOCH: S2-internal, S2-external	3
Indonesian 6 (IND301)	MURDOCH: S1-internal, S1-external	3
Indonesian 7 (IND302)	MURDOCH: S2-internal, S2-external	3
Indonesian Advanced Language Project (IND652)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Media, Culture and Politics in Indonesia (IND371)	MURDOCH: S2-internal, S2-external	3
Semester in Indonesia (IND243)	MURDOCH: S1-internal, S2-internal	12
Semester in Indonesia (IND443)	MURDOCH: S1-internal, S2-internal	12
Semester in Indonesia (IND543)	MURDOCH: S1-internal, S2-internal	12

## Information Technology

## Points

Advanced Business Analysis and Design (ICT353)	DUBAI-ISC: TSD-internal	4
--	-------------------------	---

Advanced Business Analysis and Design (ICT393)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Advanced Business Data Communications (ICT535)	MURDOCH: S2-internal	3
Advanced Data Analysis (ICT602)	MURDOCH: S1-internal	3
Advanced Games Design and Programming (ICT397)	MURDOCH: S1-internal, S1-external	3
Advanced Information Technology Research Project (ICT708)	MURDOCH: S1-internal, S2-internal	12
Advanced IT Study Project (ICT517)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal	3
Advanced Network Design and Implementation (ICT372)	MURDOCH: S2-internal	3
Advanced Routing (ICT611)	MURDOCH: S2-internal	3
Advanced Web Programming (ICT375)	MURDOCH: S1-internal, S1-external	3
Applied Information Security Management (ICT502)	MURDOCH: S2-internal, S2-external	3
Business Analysis and Systems Development Approaches (ICT501)	MURDOCH: S2-internal, S2-external	3
Business Analytics (ICT601)	MURDOCH: S2-internal	3
Business Intelligence Application Development (ICT394)	MURDOCH: S1-internal, S1-external DUBAI-ISC: TSD-internal KAPLAN-SGP: TSA-internal	3
Business Intelligence Tools and Techniques (ICT208)	DUBAI-ISC: TJD-internal, TSD-internal	4
Computer Graphics Principles and Programming (ICT289)	MURDOCH: S1-internal, S1-external	3
Computer Science Research Topic (ICT700)	MURDOCH: S1-internal, S2-internal	3
Computer Security (ICT287)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Cyber Forensics (ICT248)	Not available this year	4
Cyber Forensics and Information Technology (ICT378)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Data Analytics (ICT513)	MURDOCH: S2-internal, S2-external	3
Data Resources Management (ICT616)	MURDOCH: S2-internal	3
Data Science Group Project (ICT625)	MURDOCH: S2-internal	6
Data Structures and Abstractions (ICT209)	DUBAI-ISC: TJD-internal, TMD-internal	4
Data Structures and Abstractions (ICT283)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Databases (ICT218)	DUBAI-ISC: TMD-internal, TSD-internal	4
Databases (ICT285)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Doctor of Information Technology Thesis (ICT702)	MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external	12
Enterprise Architectures (ICT301)	MURDOCH: S2-internal, S2-external	3
Forensic Data Analysis (ICT349)	Not available this year	4
Foundations of Computer Systems (ICT170)	MURDOCH: S2-internal, S2-external	3
Foundations of Data Communications (ICT169)	MURDOCH: S2-internal, S2-external	3
Foundations of Data Science (ICT515)	MURDOCH: S1-internal	3
Foundations of Programming (ICT159)	MURDOCH: S1-internal, S1-external	3
Fundamentals of Computer Systems (ICT106)	DUBAI-ISC: TJD-internal, TMD-internal	3
Game Development (ICT371)	MURDOCH: S1-internal, S1-external	3
Games Design and Programming (ICT290)	MURDOCH: S2-internal, S2-external	3
Games Software Design (ICT288)	MURDOCH: S1-internal, S1-external	3
Games Software Production (ICT367)	MURDOCH: S1-internal, S1-external	3
Honours Thesis in Business Information Systems (ICT520)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Thesis in Computer Science (ICT510)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Thesis in Cyber Forensics, Information Security and Management (ICT530)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Honours Thesis in Games Software Design and Production (ICT550)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Honours Thesis in Games Technology (ICT570)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12

Honours Thesis in Internetworking (ICT590)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Honours Thesis in Mobile and Web Application Development (ICT580)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Human Factors in Information Technology (ICT612)	MURDOCH: S1-internal	3
Information Security Management (ICT357)	Not available this year	4
Information Security Policy and Governance (ICT380)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Information Systems Management (ICT292)	MURDOCH: S2-internal, S2-external DUBAI-ISC: TJD-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Information Systems Research Topic (ICT704)	MURDOCH: S1-internal, S2-internal	3
Information Technology Literature Review (ICT576)	MURDOCH: S1-internal, S2-internal	3
Information Technology Project (ICT333)	DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal	4
Information Technology Project Management (ICT508)	MURDOCH: S2-internal	3
Information Technology Research Dissertation (ICT678)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Information Technology Research Methods (ICT615)	MURDOCH: S1-internal	3
Information Technology Strategy (ICT622)	MURDOCH: S1-internal	3
Intelligent Systems (ICT319)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3
Intelligent Systems Applications (ICT619)	MURDOCH: S1-internal	3
Introduction to 3D Graphics and Animation (ICT101)	Not available this year	3
Introduction to Computer Science (ICT102)	DUBAI-ISC: TJD-internal, TSD-internal	3
Introduction to Data Communications (ICT103)	DUBAI-ISC: TJD-internal, TSD-internal	3
Introduction to Information Systems (ICT158)	MURDOCH: S2-internal, S2-external	3
Introduction to Information Technology (ICT105)	MURDOCH: S1-internal, S1-external	3
Introduction to Internet and Mobile Technologies (ICT108)	DUBAI-ISC: TJD-internal, TMD-internal	3
Introduction to Server Environments and Architectures (ICT171)	MURDOCH: S1-internal, S1-external	3
IT Group Project (ICT621)	MURDOCH: S1-internal, S2-internal	6
IT Professional Practice (ICT521)	MURDOCH: S1-internal	3
IT Professional Practice Project (ICT302)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Knowledge and Information Security (ICT265)	Not available this year	4
Knowledge Management (ICT505)	MURDOCH: S1-internal	3
Knowledge Management Techniques (ICT256)	DUBAI-ISC: TMD-internal	4
Local Area Network Design and Implementation (ICT546)	MURDOCH: S1-internal	3
Mobile Application Development (ICT376)	MURDOCH: S2-internal, S2-external	3
Network Design and Implementation (ICT291)	MURDOCH: S1-internal	3
Network Security (ICT377)	MURDOCH: S1-internal	3
Network Switching (ICT609)	MURDOCH: S1-internal	3
Networking Group Project (ICT623)	MURDOCH: S1-internal, S2-internal	6
Operating Systems and Systems Programming (ICT310)	DUBAI-ISC: TMD-internal	4
Operating Systems and Systems Programming (ICT374)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Principles of Computer Science (ICT104)	DUBAI-ISC: TJD-internal, TMD-internal	3
Principles of Computer Science (ICT167)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Principles of Information Systems (ICT107)	DUBAI-ISC: TMD-internal	3
Router and Firewall Security (ICT613)	MURDOCH: S1-internal	3
Security Architectures and Systems Administration (ICT379)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TSA-internal	3
Software Architectures (ICT306)	DUBAI-ISC: TJD-internal	4
Software Architectures (ICT373)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Software Development Frameworks (ICT239)	Not available this year	4

Software Development Frameworks (ICT365)	MURDOCH: S2-internal, S2-external	3
Special Topics in Information Technology (ICT228)	Not available this year	3
Special Topics in Information Technology (ICT330)	Not available this year	3
Special Topics in Information Technology (ICT560)	Not available this year	3
Special Topics in Information Technology (ICT660)	Not available this year	3
Structured Workplace Learning Placement - Information Technology (ICT687)	MURDOCH: S1-internal, S2-internal	12
Systems Analysis and Design (ICT231)	DUBAI-ISC: TMD-internal	4
Systems Analysis and Design (ICT284)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
User Interface Design (ICT396)	MURDOCH: S1-internal, S1-external	3
Virtual Environments for Games and Simulations (ICT398)	MURDOCH: S2-internal, S2-external	3
Web and Mobile Computing (ICT286)	MURDOCH: S2-internal, S2-external	3
Web Computing (ICT211)	Not available this year	4
Wireless and Interactive Networks (ICT369)	MURDOCH: S2-internal	3
Wireless Data Communications (ICT503)	MURDOCH: S1-internal	3

### Interactive Digital Design

### Points

Advanced Web Design (IDD338)	MURDOCH: S1-internal	3
Brand and Identity Design (IDD202)	MURDOCH: S1-internal	3
Graphic Design Professional Placement (IDD325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Honours Thesis in Graphic Design (IDD569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Graphic Design A (IDD561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Graphic Design B (IDD562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Digital Media Skills (IDD129)	MURDOCH: S1-internal DUBAI-ISC: TJD-internal, TSD-internal KAPLAN-SGP: TSA-internal	3
Introduction to Graphic Design (IDD118)	MURDOCH: S2-internal	3
Mobile App and Interaction Design (IDD379)	MURDOCH: S1-internal	3
Portfolio and Promotion for Designers (IDD337)	MURDOCH: S2-internal	3
Publication Design (IDD201)	MURDOCH: S2-internal	3

### Japanese

### Points

Japanese 1 (JPN101)	MURDOCH: S1-internal	3
Japanese 2 (JPN102)	MURDOCH: S2-internal	3
Japanese 3 (JPN201)	MURDOCH: UA3-internal	3
Japanese 4 (JPN202)	MURDOCH: AU1-internal	3
Japanese 5 (JPN203)	MURDOCH: S2-internal	3
Japanese 6 (JPN301)	MURDOCH: UA3-internal	3
Japanese 7 (JPN302)	MURDOCH: AU1-internal	3
Japanese 8 (JPN303)	MURDOCH: S2-internal	3
Japanese Advanced Language Project (JPN652)	Not available this year	3
Love and Sexuality in Japan (JPN207)	MURDOCH: S2-internal, S2-external	3
Postwar Japan (JPN514)	Not available this year	3
Semester in Japan (JPN443)	MURDOCH: S1-internal, S2-internal	12
Semester in Japan (JPN543)	MURDOCH: S1-internal, S2-internal	12

### Journalism

### Points

Digital Newsgathering and Journalism (JOU104)	MURDOCH: S2-internal	3
Digital Newsroom (JOU322)	MURDOCH: S1-internal, S2-internal	3
Honours Thesis in Journalism (JOU569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Journalism A (JOU561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Journalism B (JOU562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Journalism and Society (JOU340)	MURDOCH: S2-internal	3



Media Law and Ethics (JOU245)	MURDOCH: S1-internal	3
Online and Mobile Journalism (JOU217)	MURDOCH: S2-internal	3
Video Journalism (JOU367)	MURDOCH: S1-internal	3

### **Kulbardi Aboriginal Centre**

### **Points**

Big Ideas (KAC001)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Business/Commerce 1 (KAC015)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Business/Commerce 2 (KAC016)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Business/Commerce 3 (KAC017)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Business/Commerce 4 (KAC018)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Education 1 (KAC011)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Education 2 (KAC012)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Education 3 (KAC013)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Education 4 (KAC014)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Nursing 1 (KAC019)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Nursing 2 (KAC020)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Nursing 3 (KAC021)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations in Nursing 4 (KAC022)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations of Arts 1 (KAC006)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations of Arts 2 (KAC008)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations of Arts 3 (KAC009)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Foundations of Arts 4 (KAC010)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
iHealth (KAC004)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Kulbardi Summer & Winter School (KAC005)	MURDOCH: SS2-internal, SS2-external, W-internal, W-external	
Ngoolark Special Project 1 (KAC101)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Ngoolark Special Project 2 (KAC201)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Understanding Your World (KAC003)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	
Your Writing Tool-kit (KAC002)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	

### **Law (Undergraduate) 'LLB'**

### **Points**

Admiralty Law (LLB355)	Not available this year	3
Advanced Supervised Legal Research (LLB583)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal	3

*Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.*

Advanced Taxation Law (LLB317)	Not available this year	3
Alternative Dispute Resolution (LLB391)	MURDOCH: T1-internal	3
Australian Administrative Law (LLB358)	MURDOCH: S1-internal	3
Basic Principles of Taxation Law (LLB316)	MURDOCH: S1-internal	3
Civil Procedure (LLB450)	MURDOCH: S1-internal	3
Climate Change, Sustainability and Environmental Law (LLB356)	MURDOCH: S1B-internal	3
Clinical Legal Education (LLB390)	MURDOCH: S1-internal, S2-internal	3
Commercial Law (LLB332)	MURDOCH: S2-internal	3
Comparative Contract Law (LLB349)	Not available this year	3
Comparative Law (LLB325)	IMACERATA: S2G-internal (quota of 35 places)	3
Competition Law (LLB310)	MURDOCH: SP22-internal	3
Conflict of Laws (LLB341)	Not available this year	3
Constitutional Law (LLB259)	MURDOCH: S2-internal	3
Contract Law (LLB260)	MURDOCH: S1-internal	6
Corporations Law (LLB452)	MURDOCH: S1-internal	3
Criminal Law and Procedure (LLB130)	MURDOCH: S2-internal	3
Employment Relations Law (LLB363)	Not available this year	3
Equity (LLB251)	MURDOCH: S1-internal	3
Ethics and Professional Responsibility (LLB468)	MURDOCH: S1-internal, S2-internal	3
European Union Law (LLB342)	IMACERATA: S2G-internal	3
Evidence (LLB352)	MURDOCH: S2-internal	3
Family Law (LLB370)	MURDOCH: S2-internal	3
Family Law Clinic (LLB386)	MURDOCH: S1-internal, S2-internal	3
Honours Thesis in Law (LLB580)	MURDOCH: H-internal, Y-internal	12
Human Rights Law Clinic (LLB387)	MURDOCH: S1-internal, S2-internal	3
Indigenous Peoples, Law and Society (LLB203)	MURDOCH: S2-internal	3
Insurance Law (LLB319)	Not available this year	3
International Arbitration Law (LLB306)	MURDOCH: S1B-internal	3
International Human Rights Organisations (LLB376)	GENEVA: S2G-internal	3
International Sale of Goods (LLB302)	MURDOCH: T3-internal	3
International Trade Law (LLB311)	IMACERATA: S2G-internal (quota of 35 places)	3
Internships (WIL) (LLB301)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal	3
Introduction to Legal Practice (LLB308)	MURDOCH: S1-internal, S2-internal	3
Introduction to Mooting (LLB314)	MURDOCH: S1-internal (quota of 40 places)	3
IP: Regulating Innovation and Creativity (LLB307)	MURDOCH: SUM-internal (closed as the offering has reached capacity), U-internal	3
Law and Society (A Medieval Case Study) (LLB236)	Not available this year	3
Law in the Community (Street Law) (LLB393)	MURDOCH: S1-internal (quota of 20 places), S2-internal	3
Law Moot #1 (LLB312)	MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)	3
Law Moot #2 (LLB315)	MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)	3
Law of Occupational Health and Safety (LLB372)	Not available this year	3
Law of Planning (LLB367)	Not available this year	3
Legal Protection of International Human Rights (LLB337)	GENEVA: S2G-internal	3
Legal Research Methods for Honours (LLB582)	MURDOCH: H-internal, Y-internal	3
Legal Writing for Lawyers (LLB120)	MURDOCH: S1-internal, S2-internal	3
Mediation (LLB397)	MURDOCH: T3-internal (quota of 80 places)	3
Mining and Natural Resources Law (LLB335)	MURDOCH: S1-internal	3
Native Title Law (LLB305)	Not available this year	3
Oil and Gas Law (LLB392)	MURDOCH: SP23-internal	3
Policing and Crime Prevention (LLB201)	MURDOCH: S1-internal	3

Property Law A (LLB253)	MURDOCH: S1-internal	3
Property Law B (LLB254)	MURDOCH: S2-internal	3
Psychology and Law (LLB389)	MURDOCH: S2-internal	3
Public International Law (LLB365)	MURDOCH: S1-internal	3
Refugee Law (LLB327)	GENEVA: S2G-internal	3
Shipping Law (LLB339)	Not available this year	3
Social and Welfare Law (LLB323)	MURDOCH: S2-internal	3
Special Topics in Law (LLB300)	Not available this year	3
Sports Law (LLB209)	Not available this year	3
Supervised Legal Research (LLB381)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal GENEVA: S2G-internal IMACERATA: S2G-internal	3
The Law of Costs (LLB210)	MURDOCH: SUM-internal, U-internal	3
Torts (LLB152)	MURDOCH: S2-internal	3
Trial Advocacy (LLB328)	MURDOCH: SP23-internal (quota of 60 places)	3
Trusts (LLB353)	MURDOCH: S2-internal	3

### Mathematics and Statistics

### Points

Applied Mathematics (MAS182)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Applied Statistics (MAS223)	MURDOCH: S2-internal, S2-external	3
Biostatistical Methods (MAS224)	MURDOCH: S1-internal, S1-external	3
Calculus and Matrix Algebra (MAS161)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Computational Mathematics (MAS167)	DUBAI-ISC: TJD-internal, TSD-internal	3
Discrete Mathematics and Management Science (MAS225)	MURDOCH: S2-internal, S2-external	3
Environmental and Biological Modelling (MAS351)	MURDOCH: S1-internal, S1-external	3
Foundations of Discrete Mathematics (MAS162)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Fundamentals of Mathematics (MAS164)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Honours Thesis in Mathematics and Statistics (MAS519)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Mathematics (MAS512)	MURDOCH: S1-internal, S2-internal	3
Honours Topic in Numerical Analysis (MAS513)	MURDOCH: S1-internal, S2-internal	3
Honours Topic in Statistics (MAS511)	MURDOCH: S1-internal, S2-internal	3
Introduction to Statistics (MAS180)	MURDOCH: S1-external, S2-external DUBAI-ISC: TMD-internal	3
Mathematical Methods (MAS220)	MURDOCH: S1-internal, S1-external	3
Mathematical Modelling (MAS221)	MURDOCH: S2-internal, S2-external	3
Mathematics for Teaching Secondary (7-10) (MAS540)	MURDOCH: S2-internal, S2-external	3
Modelling and Simulation (MAS354)	MURDOCH: S2-internal, S2-external	3
Probability and Statistical Inference (MAS222)	MURDOCH: S1-internal, S1-external	3
Research Methods in Mathematics and Statistics (MAS514)	MURDOCH: S1-internal, S2-internal	3
Statistical Data Analysis (MAS183)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Statistical Design and Data Analysis (MAS353)	MURDOCH: S2-internal, S2-external	3
Statistics for Teaching Secondary (7-10) (MAS541)	MURDOCH: S2-external	3
Time Series Analysis (MAS352)	MURDOCH: S1-internal, S1-external	3

### Media Communication and Culture

### Points

Advanced Screen Production (MCC302)	DUBAI-ISC: TMD-internal	4
Campaign Management (MCC307)	DUBAI-ISC: TJD-internal, TSD-internal	4
Communication Research (MCC213)	DUBAI-ISC: TMD-internal	4
Documentary (MCC333)	DUBAI-ISC: TMD-internal	4
Introduction to Journalism (MCC104)	DUBAI-ISC: TJD-internal, TSD-internal	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Introduction to Public Relations (MCC107)	DUBAI-ISC: TJD-internal, TSD-internal	3
Introduction to the Screen (MCC116)	DUBAI-ISC: TJD-internal, TSD-internal	3
Issues and Crisis Management (MCC345)	DUBAI-ISC: TMD-internal	4
Masters Topic in Media Production (MCC6101)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	6
Masters Topic in Media Production (MCC6102)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	6
Media Audiences and the Public (MCC236)	DUBAI-ISC: TJD-internal, TSD-internal	4
Media Law and Ethics (MCC245)	DUBAI-ISC: TJD-internal, TSD-internal	4
Media Projects (MCC312)	DUBAI-ISC: TJD-internal, TSD-internal	4
Media Relations (MCC259)	DUBAI-ISC: TJD-internal, TSD-internal	4
Newsroom (MCC323)	DUBAI-ISC: TJD-internal, TSD-internal	4
Photo and Video Journalism (MCC267)	DUBAI-ISC: TMD-internal	4
Photography and Digital Imaging (MCC124)	DUBAI-ISC: TMD-internal	3
Politics, Journalism and Society (MCC240)	DUBAI-ISC: TMD-internal	4
Professional Development in Screen Production (MCC201)	DUBAI-ISC: TJD-internal, TSD-internal	4
Public Relations in Society (MCC385)	DUBAI-ISC: TMD-internal	4
Public Relations: Contemporary Approaches (MCC204)	DUBAI-ISC: TJD-internal, TSD-internal	4
Screen Production 2 (MCC226)	DUBAI-ISC: TMD-internal	4
Screen Production 1 (MCC128)	DUBAI-ISC: TMD-internal	3
Screen Texts (MCC2481)	DUBAI-ISC: TMD-internal	4
Web News Production (MCC217)	DUBAI-ISC: TMD-internal	4

## Nursing

## Points

Advanced Mental Health Nursing (NUR614)	Not available this year	3
Case Based Inquiry Acute Care Perspectives 1 (NUR232)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
Case Based Inquiry Acute Care Perspectives 2 (NUR242)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3
Case Based Inquiry Community Perspectives 1 (NUR233)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
Case Based Inquiry Community Perspectives 2 (NUR243)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3
Case Based Inquiry Complex Care Perspectives (NUR353)	Not available this year	3
Clinical Practice 1 (NUR119)	Not available this year	1
Clinical Practice 1/2 (NUR109)	MURDOCH: SS3-placement MANDURAH: SS3-placement	3
Clinical Practice 2 (NUR129)	Not available this year	2
Clinical Practice 3 (NUR239)	MURDOCH: W6-placement MANDURAH: W6-placement	3
Clinical Practice 3: Medical/Surgical/Mental Health/Primary Health (NUR257)	Not available this year	1
Clinical Practice 4 (NUR249)	MURDOCH: SS3-placement MANDURAH: SS3-placement	3
Clinical Practice 4: Medical/Surgical/Mental Health/Paediatrics/Maternity/Primary Health/Community Paediatrics (NUR262)	Not available this year	1
Clinical Practice 5 (NUR366)	MANDURAH: S2N-placement	3
Clinical Practice 6 (NUR367)	MANDURAH: S2N-placement	3
Clinical Practice 6 (NUR369)	Not available this year	3
Clinical Practice 7: Transition to Registered Nurse (NUR379)	Not available this year	3
Clinical Practice 8: Transition to Registered Nurse (NUR389)	Not available this year	3
Complex Care (NUR305)	MANDURAH: S1N-internal	4
Complexities of Health and Illness Across the Lifespan 1 (NUR231)	MURDOCH: S1N-external, S2N-internal MANDURAH: S1N-external, S2N-internal	3
Complexities of Health and Illness Across the Lifespan 2 (NUR241)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3

Complexities of Health and Illness Across the Lifespan 3 (NUR352)	Not available this year	3
Health Across the Lifespan 1 (NUR112)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
Health Across the Lifespan 2 (NUR122)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3
Health Research and Evidence Based Nursing Care (NUR363)	MANDURAH: S1N-internal	4
Honours Thesis in Nursing (NUR569)	MURDOCH: S1-internal, S2-internal MANDURAH: S1-internal, S2-internal	21
Indigenous Health and Cultural Diversity (NUR210)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3
Nursing Management of Chronic Illness (NUR364)	MANDURAH: S1N-internal	4
Professional Issues in Nursing Practice (NUR365)	MANDURAH: S2N-internal	3
Professional Nursing Practice 1 (NUR114)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
Professional Nursing Practice 2 (NUR123)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3
Professional Nursing Practice in a Complex World (NUR361)	Not available this year	6
Professional Nursing Practice: Complexities in Health and Illness in an Australian Context 1 (NUR387)	Not available this year	6
Professional Nursing Practice: Complexities in Health and Illness in an Australian Context 2 (NUR388)	Not available this year	6
The Healthy Human Body 1 (NUR111)	MURDOCH: S1N-internal MANDURAH: S1N-internal	3
The Healthy Human Body 2 (NUR121)	MURDOCH: S2N-internal MANDURAH: S2N-internal	3

### Other University

### Points

Biosecurity Plant Pests - Invertebrates (University of Queensland) (OTH541)	MURDOCH: S1-external	3
Biosecurity Plant Pests - Pathogens (La Trobe University BOT5BPP) (OTH542)	MURDOCH: S1-external	3
Biosecurity Plant Pests - Weeds (University of Adelaide PLANT SC 7023EX) (OTH543)	MURDOCH: S1-external	3
Community Engagement (Charles Darwin University SBI401) (OTH546)	MURDOCH: S2-external	3
Invasion Biology (University of Adelaide PLANT SC 7022EX) (OTH544)	MURDOCH: S2-external	3
Risk Analysis (University of Adelaide) (OTH545)	MURDOCH: S2-external	3

### Philosophy

### Points

Aesthetics (PHL315)	Not available this year	3
Ancient Greek Ideas (PHL316)	MURDOCH: S2-internal, S2-external	3
Applied and Professional Ethics (PHL210)	Not available this year	3
Critical and Creative Thinking (PHL131)	MURDOCH: S1-internal, S1-external	3
Critical Metaphysics (PHL205)	MURDOCH: S1-internal, S1-external	3
Existentialism (PHL207)	Not available this year	3
Honours Dissertation Preliminary (PHL569)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Thesis in Philosophy (PHL589)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Philosophy (PHL582)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Philosophy (PHL130)	MURDOCH: S2-internal, S2-external	3
Life, Death and Meaning (PHL377)	MURDOCH: S1-internal, S1-external	3
Love and Friendship (PHL212)	Not available this year	3
Meaning and Interpretation (PHL317)	MURDOCH: S1-internal, S1-external	3
Metaphors of Mind (PHL209)	MURDOCH: S2-internal, S2-external	3
Moral and Political Philosophy (PHL206)	MURDOCH: S2-internal, S2-external	3
Special Topics in Philosophy (PHL283)	Not available this year	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Special Topics in Philosophy (PHL383) Not available this year 3

## Photography

## Points

Advanced Photographic Studio (PHO306)	MURDOCH: S1-internal	3
Digital Imaging (PHO101)	MURDOCH: S2-internal	3
Honours Thesis in Photography (PHO569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Photography A (PHO561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Photography B (PHO562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Media Projects (PHO312)	MURDOCH: S2-internal	3
Photo Documentary (PHO202)	MURDOCH: S2-internal	3
Photographic Culture (PHO305)	MURDOCH: S2-internal	3
Photography 1 (PHO124)	MURDOCH: S1-internal, S2-internal	3
Photography 2 (PHO203)	MURDOCH: S1-internal	3
Professional Placement in Digital Media (PHO330)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Visual Literacy (PHO204)	MURDOCH: S1-internal	3

## Physics and Energy Studies

## Points

Advanced Topics in Physics and Nanotechnology: Experimental (PEN523)	MURDOCH: S2-internal, S2-external	3
Advanced Topics in Physics and Nanotechnology: Theoretical (PEN530)	MURDOCH: S1-internal, S1-external	3
Applications of Nanotechnology (PEN261)	MURDOCH: S1-internal, S1-external	3
Carbon Management (PEN598)	MURDOCH: S1-internal, S1-external, S2-external	3
Case Studies of Renewable Energy Systems (PEN620)	MURDOCH: S2-internal, S2-external	3
Climate Change Adaptation and Strategy (PEN503)	MURDOCH: S2-internal, S2-external	3
Climate Change Impact Assessment (PEN502)	MURDOCH: S1-internal, S1-external	3
Climate Change Science and Policy (PEN597)	MURDOCH: S1-internal, S1-external	3
Electromagnetism (PEN332)	MURDOCH: S1-internal, S1-external	3
Energy and Greenhouse Reporting (PEN501)	Not available this year	3
Energy Economics (PEN593)	MURDOCH: S1-internal, S1-external	3
Energy Efficiency, System Analysis and Auditing (PEN625)	MURDOCH: S2-external	3
Energy Efficient Buildings (PEN670)	MURDOCH: S1-internal, S1-external	3
Energy in Society (PEN592)	MURDOCH: S1-internal, S1-external, S2-external	3
Energy Management (PEN594)	MURDOCH: S1-internal, S1-external	3
Energy Policy (PEN591)	MURDOCH: S2-internal, S2-external	3
Energy Studies Project (PEN596)	Not available this year	3
Energy Systems (PEN590)	MURDOCH: S2-internal, S2-external	3
Environmental Architecture Dissertation (PEN673)	MURDOCH: Y-internal, Y-external	9
Experimental Physics and Nanotechnology (PEN363)	MURDOCH: S2-internal, S2-external	3
General Physics (PEN120)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Greenhouse Gas Reporting and Life Cycle Assessment (PEN504)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Physics and Nanotechnology (PEN589)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Honours Thesis in Physics and Nanotechnology (PEN599)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	15
Industrial and Commercial Energy Efficiency Technologies (PEN626)	Not available this year	3
Introduction to Energy Studies (PEN190)	Not available this year	3
Modern Physics (PEN231)	MURDOCH: S1-internal, S1-external	3
Physical Sciences Internship (PEN310)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Physics and Nanotechnology Projects (PEN307)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Physics for Teaching Secondary (7-10) (PEN540)	MURDOCH: S2-internal, S2-external	3
Physics of Materials (PEN317)	MURDOCH: S2-internal, S2-external	3
Principles of Physics (PEN152)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3

Renewable Energy and Sustainable Development (PEN587)	MURDOCH: S2-internal, S2-external	3
Renewable Energy Devices (PEN621)	MURDOCH: S1-internal, S1-external	3
Renewable Energy Dissertation (PEN624)	MURDOCH: H-internal, H-external, Y-internal, Y-external	12
Renewable Energy Resources (PEN622)	MURDOCH: S1-internal, S1-external	3
Renewable Energy Systems Design (PEN623)	MURDOCH: S1-internal, S1-external	3
Thermodynamics for Physics and Nanotechnology (PEN202)	MURDOCH: S2-internal, S2-external	3

## Politics and International Studies

## Points

Democracy and Political Change (POL228)	MURDOCH: S1-internal, S1-external	3
Democracy in Doubt (POL331)	MURDOCH: S1-internal, S1-external	3
Global Justice (POL134)	MURDOCH: S2-internal, S2-external	3
Global Policy and Administration (POL332)	MURDOCH: S2-internal, S2-external	3
Governance and Politics in the 21st Century (POL341)	MURDOCH: S2-internal, S2-external	3
Honours Research Seminar (POL501)	MURDOCH: S1-internal, S1-external	6
Honours Thesis in Global Politics and Policy (POL579)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Global Politics and Policy (POL500)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external	3
International Political Economy (POL298)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
International Security Studies (POL345)	MURDOCH: S2-internal, S2-external	3
Middle East Politics and Security (POL334)	MURDOCH: S2-internal, S2-external	3
Military Force and Counterterrorism (POL232)	MURDOCH: S2-internal, S2-external	3
Perspectives on Security and Terrorism (POL192)	MURDOCH: S1-internal, S1-external	3
Policing, Intelligence and Counterterrorism (POL335)	MURDOCH: S1-internal, S1-external	3
Politics and Security in South-East Asia: Terrorists, Gangsters and the State (POL338)	MURDOCH: S2-internal, S2-external	3
Politics, Power and Policy (POL133)	MURDOCH: S1-internal, S1-external	3
Public Policy Analysis (POL246)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Public Policy Internship (POL340)	MURDOCH: S2-internal, S2-external	6
Sex and Gender Matters (POL226)	MURDOCH: S2-internal, S2-external	3
Special topic: Counterterrorism Polices & Practices (POL319)	MURDOCH: S2-internal, S2-external	3
Special Topic: From Al Qaeda to the Islamic State: Assessing Terror Threats (POL219)	MURDOCH: S2-internal, S2-external	3
Terrorism and Political Violence in South Asia (POL237)	MURDOCH: S1-internal, S1-external	3
Terrorism in a Globalised World (POL234)	MURDOCH: S1-internal, S1-external	3
Transformations in the Global Order (POL333)	MURDOCH: S1-internal, S1-external	3
Understanding International Politics (POL161)	MURDOCH: S2-internal, S2-external	3
US Policies and Global Security (POL236)	MURDOCH: S1-internal, S1-external	3

## Psychology

## Points

Advanced Psychological Assessment (PSY598)	MURDOCH: S1-internal	3
Applied Psychology Dissertation (PSY600)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	12
Applied Psychology Dissertation (PSY690)	MURDOCH: S1-internal, S2-internal, Y-internal	10
BA Honours Thesis in Psychology (PSY5078)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal	15
BPsych Practical Skills (PSY444)	MURDOCH: S2-internal	4
BSc Honours Thesis in Psychology (PSY5099)	MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal	15
Changing Behaviour in Policy and Practice: The Psychology of Influence (PSY609)	Not available this year	3
Clinical Psychology: Developmental Disabilities (PSY567)	MURDOCH: S2-internal	3
Clinical Psychology: External Practicum (PSY604)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	12

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Clinical Psychology: Internal Practicum (Adult) (PSY538)	MURDOCH: H-placement, SUM-placement, U-placement, Y-placement	3
Clinical Psychology: Internal Practicum (Child, Youth and Family) (PSY537)	MURDOCH: H-placement, SUM-placement, U-placement, Y-placement	3
Clinical Psychology: Working with Adults (PSY565)	MURDOCH: S1-internal	3
Clinical Psychology: Working with Children and Families (PSY664)	MURDOCH: S1-internal	3
Clinical Psychology: Working with Health Problems (PSY502)	MURDOCH: S2-internal	3
Doctor of Psychology (Clinical): Research Integrated Practicum I (PSY703)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	6
Doctor of Psychology (Clinical): Research Integrated Practicum II (PSY704)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	6
Doctor of Psychology (Organisational): Practicum I (PSY701)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	6
Doctor of Psychology (Organisational): Practicum II (PSY702)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	6
Doctor of Psychology Thesis (PSY700)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal	48
Graduate Seminar in Psychology (PSY599)	MURDOCH: S1-internal	3
Honours Thesis in Psychology (PSY4039)	MURDOCH: S1-internal, S2-internal	12
Human Resources (PSY568)	MURDOCH: S1-internal	3
Introduction to Cultural Psychology (PSY101)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Introduction to Psychological Health and Wellbeing (PSY172)	MURDOCH: S2-internal	3
Introduction to Psychological Research Methods (PSY173)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Introduction to Psychological Science (PSY141)	MURDOCH: S1-internal, S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Organisation of Work (PSY552)	MURDOCH: S2-internal	3
Organisational Psychology: Practicum I (PSY570)	MURDOCH: S2-internal	3
Organisational Psychology: Practicum II (PSY603)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement	12
Professional Practice and Organisational Consulting (PSY563)	MURDOCH: S1-external	3
Professional Psychology: Practicum 1 (Pre-Clinical) (PSY601)	MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Practicum 1 (Professional) (PSY605)	MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Practicum 1 (Workplace Internship) (PSY607)	MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Practicum 2 (Pre-Clinical) (PSY602)	MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Practicum 2 (Professional) (PSY606)	MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Practicum 2 (Workplace Internship) (PSY608)	MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement	3
Professional Psychology: Research Project (PSY610)	MURDOCH: Y-internal	3
Psychological Assessment: Theory and Method (PSY662)	MURDOCH: Y-internal	3
Psychology Project (PSY541)	MURDOCH: H-internal, Y-internal	12
Psychology: Abnormal Behaviour (PSY388)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Psychology: Advanced Research Methods (PSY655)	MURDOCH: Y-internal	2
Psychology: Advanced Research Methods (PSY651)	MURDOCH: Y-internal	3
Psychology: Advanced Research Methods (PSY755)	MURDOCH: Y-internal	0
Psychology: Biological Bases of Behaviour (PSY251)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Psychology: Cognitive Processes (PSY294)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Psychology: Developmental Cognitive Neuroscience (PSY396)	MURDOCH: S2-internal	3



Psychology: Drugs and Dependence (PSY389)	MURDOCH: S1-internal	3
Psychology: Family Relations and Social Development (PSY392)	MURDOCH: S2-internal KAPLAN-SGP: TSA-internal	3
Psychology: Fourth Year Project (PSY441)	MURDOCH: H-internal, Y-internal	8
Psychology: Fourth Year Seminar (PSY412)	MURDOCH: S1-internal	4
Psychology: Honours Seminar (PSY501)	MURDOCH: S1-internal	3
Psychology: Human Development (PSY286)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Psychology: Individual Differences and Performance (PSY391)	MURDOCH: S1-internal KAPLAN-SGP: TSA-internal	3
Psychology: Practical Skills (PSY544)	MURDOCH: S2-internal	3
Psychology: Principles and Processes of Interventions (PSY436)	MURDOCH: S2-internal	4
Psychology: Principles and Processes of Psychological Intervention (PSY536)	MURDOCH: S2-internal	3
Psychology: Principles of Psychological Assessment (PSY431)	MURDOCH: S1-internal	4
Psychology: Psychological Research Placement (PSY380)	MURDOCH: S1-placement, S2-placement, Y-placement	3
Psychology: Safety, Errors and Accidents (PSY357)	KAPLAN-SGP: TMA-internal	4
Psychology: Self and Society (PSY287)	MURDOCH: S1-internal KAPLAN-SGP: TMA-internal, TSA-internal	3
Psychology: Sensation and Perception (PSY297)	MURDOCH: S2-internal	3
Psychology: Social Bases of Behaviour (PSY285)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal	3
Psychology: Special Topics in Psychology (PSY250)	Not available this year	3
Psychology: The Developing Mind (PSY393)	MURDOCH: S1-internal KAPLAN-SGP: TSA-internal	3
Psychology: Work and Organisations (PSY217)	KAPLAN-SGP: TJA-internal, TSA-internal	4
Psychotherapy in Practice (PSY669)	MURDOCH: Y-internal	3
Research Studies -- Psychology (PSY920)	MURDOCH: R1-internal, R2-internal, RAU-internal	12
Work and Well-being (PSY612)	MURDOCH: S2-internal, S2-external	3

## Public Relations

## Points

Campaign Management (PRO307)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Honours Thesis in Public Relations (PRO569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Public Relations A (PRO561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Public Relations B (PRO562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Public Relations (PRO107)	MURDOCH: S1-internal	3
Introduction to Social Media (PRO101)	MURDOCH: S2-internal DUBAI-ISC: TMD-internal	3
Issues and Crisis Management (PRO345)	MURDOCH: S1-internal KAPLAN-SGP: TMA-internal	3
Media Relations (PRO259)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Public Relations in Society (PRO285)	MURDOCH: S1-internal KAPLAN-SGP: TMA-internal	3
Public Relations Internship (PRO325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Public Relations Project (PRO302)	MURDOCH: S1-internal KAPLAN-SGP: TMA-internal	3
Public Relations Strategy (PRO204)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TSA-internal	3

## Radio

## Points

Creative Radio (RAD301)	MURDOCH: S2-internal	3
Honours Thesis in Radio (RAD569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Radio A (RAD561)	MURDOCH: S1-internal, S2-internal, Y-internal	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Honours Topic in Radio B (RAD562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Radio (RAD105)	MURDOCH: S2-internal	3
Popular Music (RAD374)	MURDOCH: S2-internal	3
Radio Presenting and Producing (RAD244)	MURDOCH: S1-internal	6
Radio Professional Placement (RAD325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Radio Projects (RAD316)	MURDOCH: S1-internal	3

## Religion

## Points

Biblical Hebrew I (REL207)	MURDOCH: S1-internal	3
Biblical Hebrew II (REL208)	MURDOCH: S2-internal	3
Death and the Afterlife in Ancient Egypt and Mesopotamia (REL203)	Not available this year	3
Faith, Conflict, and Human Rights (REL202)	MURDOCH: S2-internal, S2-external	3
Honours Thesis in Religion (REL569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Religion A (REL561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Religion B (REL562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to the Bible (REL204)	Not available this year	3
Mysteries, Magic, and Myths (REL205)	MURDOCH: S2-internal, S2-external	3
New Testament Greek I (REL209)	Not available this year	3
New Testament Greek II (REL210)	Not available this year	3
Religion in the Ancient World (REL312)	Not available this year	3
Seminar in the Study of Religion (REL311)	Not available this year	3
World Religions (REL101)	MURDOCH: S2-internal, S2-external	3
World Religions in Historical Encounter (REL306)	Not available this year	3

## School of Arts

## Points

Advanced Research Methods (ART604)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Honours Seminar in Arts (ART503)	MURDOCH: S1-internal, S2-internal	3
In-Country Studies Indonesia (ART307)	MURDOCH: S1-external, S2-external, SUM-internal, SUM-external, U-internal, U-external	6
In-Country Studies Indonesia (ART607)	MURDOCH: SUM-internal, U-internal	6
In-Country Studies Indonesia (ART6071)	Not available this year	12
Masters by Coursework Research Dissertation (ART610)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Masters by Coursework Research Project (ART640)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external	3
Masters by Coursework Research Project (ART6401)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external	6
Masters by Coursework Research Project (ART6402)	Not available this year	9
Professional Placement (ART325)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal	3

## School of Health Professions

## Points

Applied Health Research Methods: From Research to Practice (SHP632)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external MANDURAH: S2-external	3
Applied Health Services Project (SHP603)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	6
Bioethics and Law for Health Care Leadership (SHP510)	MURDOCH: S1-external, S2-external	3
Clinical Governance (SHP641)	MURDOCH: S1-external	3
Financial Management in Health Care (SHP639)	MURDOCH: S1-external	3

Health Care Education (SHP638)	Not available this year	3
Health Policy in an Australian Context (SHP541)	MURDOCH: S1-external, S2-external	3
Health Services Project (SHP640)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	6
Human Factors: The Impact on Patient Safety (SHP602)	MURDOCH: S2-external	3
Internship (SHP648)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	6
Leadership in Health Care (SHP511)	MURDOCH: S1-external, S2-external	3
Managing in a Health Care Environment (SHP612)	MURDOCH: S1-external	3
Reflective Practice in Health Management (SHP604)	MURDOCH: S2-external	3
Safety and Quality in Health Care (SHP501)	MURDOCH: S1-external, S2-external	3

### School of Veterinary and Life Sciences

### Points

Advanced Research Methods for Scientists (VLS683)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Honours Thesis in Animal Health (VLS515)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Animal Science (VLS510)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Biological Sciences (VLS560)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Biomedical Science (VLS525)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Biotechnology (VLS535)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Conservation and Wildlife Biology (VLS540)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Crop and Pasture Science (VLS565)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Environmental Management and Sustainability (VLS545)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Environmental Science (VLS550)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Forensic Biology and Toxicology (VLS520)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Marine Science (VLS555)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Molecular Biology (VLS530)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Honours Thesis in Veterinary Biology (VLS505)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	21
Projects in Veterinary and Life Sciences (VLS300)	MURDOCH: U-internal	3

### Screen Production

### Points

Advanced Media Seminars (SCR538)	Not available this year	6
Advanced Screen Production (SCR320)	MURDOCH: S2-internal	3
Advanced Topic in Media Production (SCR510)	Not available this year	6
Documentary (SCR300)	MURDOCH: S1-internal	3
Documentary Production (SCR304)	MURDOCH: S2-internal	3
Factual Production (SCR303)	MURDOCH: S1-internal	3
Honours Thesis in Screen Production (SCR569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Screen Production A (SCR561)	MURDOCH: S1-internal, S1-external, S2-internal, Y-internal	3
Honours Topic in Screen Production B (SCR562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to the Screen (SCR100)	MURDOCH: S2-internal, S2-external	3
Post Production in Media Production (SCR501)	Not available this year	6
Production Development (SCR222)	MURDOCH: S2-internal	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Professional Development (SCR312)	MURDOCH: S1-internal	3
Professional Placement in Media Production (SCR588)	Not available this year	6
Screen Production 1 (SCR101)	MURDOCH: S1-internal, S2-internal	3
Screen Production 2 (SCR201)	MURDOCH: S1-internal	3
Screen Text (SCR348)	MURDOCH: S2-internal, S2-external	3
Screen Writing and Development (SCR550)	Not available this year	3
Special Project in Media Production (SCR503)	Not available this year	3
Writing for the Screen (SCR200)	MURDOCH: S1-internal	3

### Sir Walter Murdoch School

### Points

Advanced Topics in Health Informatics and Bioinformatics (SWM531)	Not available this year	3
Comparative Governance and Public Administration (SWM651)	MURDOCH: S2-internal	3
Contemporary Issues in International Affairs (SWM623)	MURDOCH: S1-internal	3
Corruption, Anti-corruption and its Discontents (SWM648)	MURDOCH: S2-internal	3
Critical Approaches to Development (SWM511)	MURDOCH: S1-internal	3
Cultural and Communications Policy (SWM647)	MURDOCH: S2-internal	3
Development and Sustainability (SWM628)	MURDOCH: W-internal	3
Ethics and Global Justice (SWM621)	Not available this year	3
Financial Management Decision Making (SWM532)	MURDOCH: S1-internal, S1-external	3
Global Governance, Security and Economy (SWM612)	MURDOCH: S2-internal	6
Health Economics and Finance (SWM518)	MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external	3
Health Policy and Governance (SWM517)	MURDOCH: S1-internal, S1-external	3
Internship Professional Placement (SWM6191)	MURDOCH: S2-internal	6
Parliamentary Democracy (SWM646)	Not available this year	3
Policy Research and Evaluation (SWM516)	MURDOCH: S2-internal	3
Principles of Health Informatics (SWM533)	MURDOCH: S1-internal, S1-external	3
Private Sector and Development (SWM652)	Not available this year	3
Public Policy and International Affairs Foundations (SWM649)	MURDOCH: S1-internal	6
Public Policy Perspectives (SWM613)	MURDOCH: S1-internal	6
Public Sector Economics (SWM645)	Not available this year	3
Public Sector Management (SWM515)	MURDOCH: S1-internal	3
Research Internship (SWM619)	MURDOCH: S1-internal, S2-internal	6
Security, Conflict and Violence (SWM635)	MURDOCH: S2-internal	3
Social Science Research Design (SWM618)	MURDOCH: S1-internal	3
Special Topics in Development Studies (SWM640)	Not available this year	3
Special Topics in International Affairs (SWM650)	Not available this year	3
Special Topics in Public Policy and Management (SWM660)	Not available this year	3
States, Social Forces and Development (SWM611)	MURDOCH: S2-internal	6
Strategic Health Leadership and Management (SWM519)	MURDOCH: W-internal, W-external	3
Supervised Case Study Project (SWM620)	MURDOCH: S1-internal, S2-internal, W-internal	3
Supervised Research Thesis (SWM617)	MURDOCH: S1-internal, S2-internal	6
Supervised Research Thesis (SWM6171)	MURDOCH: S1-internal, S2-internal	9
Thinking and Reasoning Economically (SWM629)	MURDOCH: S1-internal	3

### Sociology

### Points

Health and Society (SOC313)	MURDOCH: S1-internal, S1-external	3
Honours Thesis in Sociology (SOC569)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Sociology A (SOC561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Sociology B (SOC562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Sociology (SOC134)	MURDOCH: S1-internal, S1-external	3
Religion and Society (SOC209)	MURDOCH: S1-internal, S1-external	3
Sociology and the Modern World (SOC211)	MURDOCH: S1-internal, S1-external	3
Special Topics in Sociology (SOC272)	Not available this year	3
Youth Cultures (SOC203)	MURDOCH: S2-internal, S2-external	3

### Sound

### Points

Digital Forensics (SOU681)	MURDOCH: S1-internal	3
Honours Thesis in Sound (SOU569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Sound A (SOU561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Sound B (SOU562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Introduction to Audio Production (SOU101)	MURDOCH: S2-internal	3
Introduction to Sound Studies (SOU169)	MURDOCH: S1-internal	3
Music Technology (SOU268)	MURDOCH: S2-internal	3
Sound Design (SOU376)	MURDOCH: S1-internal	3
Sound Production (SOU214)	MURDOCH: S1-internal	3
Sound Professional Placement (SOU325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Sound Projects (SOU378)	MURDOCH: S2-internal	3
Soundtrack (SOU377)	MURDOCH: S2-internal	3

## Sustainability

## Points

Cities and Sustainability (SUS523)	MURDOCH: S1-internal, S1-external	3
Economics of Sustainability (SUS305)	MURDOCH: W-internal, W-external	3
Honours Thesis in Sustainable Development (SUS501)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Sustainable Development (SUS500)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external	3
International Aid and Development in Practice (SUS309)	MURDOCH: S2-internal, S2-external	3
Introduction to Sustainable Development (SUS100)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Overseas Aid and International Development (SUS207)	MURDOCH: S1-internal, S1-external	3
Resilient Regions: People and Practice (SUS611)	MURDOCH: SUM-internal (quota of 10 places), SUM-external, U-internal (quota of 10 places), U-external	3
Resilient Regions: Sustainability in Practice (SUS301)	MURDOCH: SUM-internal, SUM-external, U-internal, U-external	3
Special Topics in Sustainability (SUS601)	Not available this year	3
Special Topics in Sustainability: Behavioural Change and Sustainable Living (SUS250)	MURDOCH: SUM2-internal (closed as the offering has reached capacity)	3
Special Topics in Sustainable Development (SUS640)	Not available this year	3
Sustainability, Ecology and Communities (SUS203)	MURDOCH: S1-internal, S1-external	3
Sustainability, Ecology and Communities (SUS512)	MURDOCH: S1-internal, S1-external	3
Sustainable Development Internship Project (SUS331)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Sustainable Development Internship Project (SUS532)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external	6
Sustainable Urban Communities (SUS310)	MURDOCH: S1-internal, S1-external	3

## Teaching and Learning

## Points

Communication Skills for Postgraduate Study (TLC501)	MURDOCH: S1-internal, S2-internal	3
--	-----------------------------------	---

## Theology

## Points

Advanced Biblical Interpretation Seminar (THE617)	Not available this year	3
Advanced Pastoral Practicum (THE626)	MURDOCH: S1-external, S2-external	3
Apologetics (THE614)	Not available this year	3
Britain and the Reformation Era (THE623)	Not available this year	3
Chaplaincy in Theory and Practice (THE513)	MURDOCH: S2-internal, S2-external	3
Christology (THE625)	Not available this year	3
Church, Ministry and Sacraments (THE663)	Not available this year	3
Emerging Christian Theology: The Creeds (100-500 CE) (THE510)	MURDOCH: S2-internal, S2-external	3
Ethics (THE624)	MURDOCH: S2-external	3

*Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.*

Globalisation of Modern Christianity (THE622)	MURDOCH: S1-internal, S1-external	3
History of Missions (THE616)	MURDOCH: S2-internal, S2-external	3
Homiletics (THE618)	Not available this year	3
Introduction to the New Testament (THE507)	MURDOCH: S2-internal, S2-external	3
Introduction to the Old Testament (THE506)	MURDOCH: S1-internal, S1-external	3
New Testament Exegesis: Gospels (THE621)	MURDOCH: S1-internal, S1-external	3
Old Testament Exegesis (THE620)	MURDOCH: S2-internal, S2-external	3
Pastoral Care (THE645)	MURDOCH: S1-internal, S1-external	3
Pastoral Practicum (THE512)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Special Topics in Theology (THE274)	Not available this year	3
Special Topics in Theology (THE473)	Not available this year	3
Spirituality (THE528)	MURDOCH: S1-internal, S1-external	3
Teaching Religion in Schools (THE511)	Not available this year	3
Thinking Theology (THE505)	MURDOCH: S1-internal, S1-external	3
Triune God (THE619)	MURDOCH: S2-internal, S2-external	3
Turning Points in Church History (THE509)	MURDOCH: S1-internal, S1-external	3
Understanding Religion in Australian Society (THE627)	MURDOCH: S1-internal, S1-external	3
Worship and Liturgy (THE615)	Not available this year	3

## Tourism

## Points

Cultural Tourism Interpretation (TOU230)	MURDOCH: S2-internal, S2-external	3
Destination Management (TOU323)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Events, Policy and Evaluation (TOU324)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal, TSA-internal	3
Festivals and Events (TOU232)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TJA-internal, TSA-internal	3
Honours Thesis in Tourism and Events (TOU569)	MURDOCH: S1-internal, S2-internal	12
Honours Topic in Tourism and Events A (TOU561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Tourism and Events B (TOU562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Hospitality and Tourism Project (TOU306)	MURDOCH: S2-internal, S2-external	3
Indigenous Tourism Issues (TOU231)	Not available this year	3
Introduction to Tourism Systems (TOU101)	MURDOCH: S1-internal, S1-external	3
Special Topics in Tourism (TOU228)	Not available this year	3
Sustainable Tourism (TOU221)	MURDOCH: S1-internal, S1-external KAPLAN-SGP: TMA-internal	3
Tourism and Events Project (TOU322)	MURDOCH: S2-internal, S2-external	3
Travel and Tourism in Society (TOU102)	MURDOCH: S2-internal, S2-external KAPLAN-SGP: TMA-internal	3

## University Access

## Points

Extension to Veterinary Biology 1 (EQU031)	MURDOCH: S1-internal	
Extension to Veterinary Biology 2 (EQU032)	MURDOCH: S2-internal	
Extension to Veterinary Biology 3 (EQU033)	MURDOCH: S1-internal	
Extension to Veterinary Biology 4 (EQU034)	MURDOCH: S2-internal	
Extension to Veterinary Biology 5 (EQU035)	Not available this year	
FlexiTrack (EQU080)	MURDOCH: H1-external, SPA1-external, SS3-external, SUM2-external, WU1-external, Y3-external	
Integrated Clinical Studies 1 (EQU041)	MURDOCH: S1-internal	
Integrated Clinical Studies 2 (EQU042)	MURDOCH: S2-internal	
Integrated Clinical Studies 3 (EQU043)	MURDOCH: S1-internal	
Integrated Clinical Studies 4 (EQU044)	MURDOCH: S2-internal	
Introduction to Clinical Studies (EQU036)	Not available this year	
Murdoch University International Bridging Unit (EQU013)	MURDOCH: UA4-internal, W1-internal	0

Students should ensure they are familiar with the University's internal regulations, including provisions specifically relevant to their studies. See the University Regulation overview in this Handbook and view legislation online at <http://goto.murdoch.edu.au/legislation/>

Students need to have access to and be able to use computing devices with Internet browsing capability: see <http://goto.murdoch.edu.au/InternetStudy>

OnTrack (EQU060)	MURDOCH: S1-internal, S2-internal MANDURAH: S1-internal, S2-internal ROCKINGHAM: S1-internal, S2-internal
OnTrack Sprint (EQU070)	MURDOCH: SB7-internal
Orientation Chemistry 1 (EQU011)	MURDOCH: S1-internal
Orientation Chemistry 2 (EQU012)	MURDOCH: S2-internal
Transition to Biological Science Studies 1 (EQU021)	MURDOCH: S1-internal, S2-internal
Transition to Biological Science Studies 2 (EQU022)	MURDOCH: S1-internal, S2-internal
Transition to Biological Science Studies 3 (EQU023)	MURDOCH: S1-internal, S2-internal
Transition to Biological Science Studies 4 (EQU024)	MURDOCH: S2-internal

## Veterinary Science

## Points

Advanced Anaesthesia and Critical Care (VET660)	MURDOCH: S1-external (quota of 30 places)	3
Advanced Surgical Techniques (VET647)	MURDOCH: S1-external (quota of 25 places)	3
Advanced Topics in Equine Practice (VET543)	MURDOCH: S2V-internal	6
Advanced Topics in Equine Practice (VET643)	Not available this year	9
Advanced Topics in Mixed Animal Practice (VET542)	MURDOCH: S2V-internal	6
Advanced Topics in Mixed Animal Practice (VET651)	Not available this year	9
Advanced Topics in Production Animal Practice (VET544)	MURDOCH: S2V-internal	6
Advanced Topics in Production Animal Practice (VET644)	Not available this year	9
Advanced Topics in Small Animal Practice (VET541)	MURDOCH: S2V-internal	6
Advanced Topics in Small Animal Practice (VET652)	Not available this year	9
Advanced Topics in Veterinary Science (VET546)	MURDOCH: S2V-internal	6
Advanced Topics in Veterinary Science (VET646)	Not available this year	9
Advanced Topics in Wildlife, Zoological and Conservation Medicine (VET545)	MURDOCH: S2V-internal	6
Advanced Topics in Wildlife, Zoological and Conservation Medicine (VET645)	Not available this year	9
Advanced Veterinary Case Management (VET675)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	3
Advanced Veterinary Case Management (VET6751)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	6
Advanced Veterinary Case Management (VET6752)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	9
Advanced Veterinary Case Management 2 (VET676)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	3
Advanced Veterinary Case Management 2 (VET6761)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	6
Advanced Veterinary Case Management 2 (VET6762)	MURDOCH: H-internal, S1-internal, S2-internal, Y-internal	9
Animal Behaviour and Welfare (VET333)	MURDOCH: S1-internal	3
Avian, Exotic Pet and Wildlife Practice (VET453)	MURDOCH: S1-internal	2
Avian, Wildlife and Exotic Pet Medicine (VET636)	MURDOCH: T3-internal	2
Bovine Health and Management (VET632)	MURDOCH: T1-internal	4
Case Reports (VET622)	MURDOCH: S1-external (quota of 20 places), S2-external (quota of 20 places)	3
Cattle and Camelid Medicine, Production and Surgery (VET455)	MURDOCH: S2-internal	3
Comparative Mammalian Biochemistry (VET272)	MURDOCH: S1-internal	3
Conservation Medicine (VET630)	MURDOCH: S2-internal, S2-external	3
Conservation Medicine Field Placement/Project (VET639)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	3
Conservation Medicine Field Placement/Project (VET6391)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	6
Dermatology (VET628)	Not available this year	3
Diagnostic Imaging (VET671)	MURDOCH: S1-external (quota of 30 places)	3
Doctor of Veterinary Medical Science Thesis (VET770)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	48
Epidemiological Studies: Design and Analysis (VET699)	MURDOCH: S1-internal, S1-external	3
Equine General Practice (VET608)	MURDOCH: ASP3-internal	4
Equine Medicine I (VET673)	MURDOCH: S1-internal, S1-external	3
Equine Medicine II (VET674)	MURDOCH: S2-internal, S2-external	3
Equine Practice (VET454)	MURDOCH: YM-internal	4
Equine Practice, After-Hours and Diagnostic Imaging (VET590)	MURDOCH: YMV-internal	3

Students who have successfully completed a unit may not enrol for credit in any subsequent version of that unit, even if under a different code and/or title, nor in any parallel lower- or higher-level version. Students enrolled in a higher-level version of a unit are required to demonstrate advanced analytical skills and/or use of advanced research tools in assignments modified for that level.

Equine Practice, After-hours, and Diagnostic Imaging (VET618)	Not available this year	3
Evidence-Based Clinical Practice (VET694)	Not available this year	3
Infectious and Emerging Diseases (VET640)	MURDOCH: S2-external	3
Infectious and Parasitic Diseases (VET629)	Not available this year	3
Intensive Industries Medicine and Production (VET451)	MURDOCH: YM-internal	2
Introduction to Clinical Practice (VET331)	MURDOCH: S1-internal	3
Medicine 1 (VET625)	Not available this year	3
Medicine 2 (VET626)	MURDOCH: S1-external	3
Medicine 3 (VET609)	MURDOCH: S2-external	3
One Health (VET392)	MURDOCH: S2-internal	3
One Health Management and Leadership (VET655)	MURDOCH: S1-external	3
One Health: Wildlife Perspectives (VET603)	MURDOCH: S1-internal, S1-external	3
Pig and Poultry Health and Management (VET635)	MURDOCH: T1-internal	2
Practical Applications of Epidemiology (VET642)	MURDOCH: S1-internal, S1-external	3
Principles of Epidemiology (VET641)	MURDOCH: S1-internal, S1-external, S2-internal, S2-external	3
Principles of Infectious Disease I - Veterinary Microbiology (VET211)	MURDOCH: S2-internal	3
Principles of Infectious Disease II - Veterinary Parasitology (VET278)	MURDOCH: S2-internal	3
Principles of Surgery and Anaesthesia (VET301)	MURDOCH: S2-internal	3
Principles of Wildlife Health (VET604)	MURDOCH: S1-internal, S1-external	3
Processes in Animal Disease (VET375)	MURDOCH: S1-internal	3
Production Animal, Public Health and Pathology (VET687)	Not available this year	3
Production Animal, Public Health, Pathology (Anatomical and Clinical) Core Clinical Rotation (VET587)	MURDOCH: YMV-internal	3
Public Health and Epidemiology (VET656)	MURDOCH: S2-internal	3
Reproduction and Obstetrics (VET463)	MURDOCH: YM-internal	3
Research Methodology (VET666)	MURDOCH: S1-internal	3
Risk Analysis from Farm to Fork (VET657)	MURDOCH: S1-internal	3
Seminars in Veterinary Clinical Studies (VET679)	MURDOCH: H-internal, Y-internal	3
Small Animal Medicine (VET452)	MURDOCH: S2-internal	4
Small Animal Practice (VET614)	MURDOCH: ASP3-internal	6
Small Animal Practice 1 (VET617)	Not available this year	6
Small Animal Practice I (VET585)	MURDOCH: YMV-internal	3
Small Animal Practice II (VET586)	MURDOCH: YMV-internal	3
Small Animal Surgery (VET457)	MURDOCH: YM-internal	3
Small Animal Surgery and Diagnostic Imaging (VET607)	MURDOCH: ASP3-internal	3
Small Ruminant and Camelid Health and Management (VET633)	MURDOCH: T1-internal	3
Small Ruminant Medicine and Production (VET419)	MURDOCH: S2-internal	2
Systemic Pathology and Medicine (VET377)	MURDOCH: S2-internal	6
Theriogenology (VET637)	MURDOCH: Y-internal	3
Transition to Practice (VET615)	MURDOCH: ASP3-internal	3
Veterinary Case Management Rounds (VET678)	MURDOCH: H-internal, Y-internal	3
Veterinary Nutrition and Animal Toxicology (VET380)	MURDOCH: S1-internal	3
Veterinary Professional Investigation (VET616)	MURDOCH: H-internal	9
Veterinary Professional Life I (VET210)	MURDOCH: Y-internal	3
Veterinary Professional Life II (VET684)	MURDOCH: H-internal	12
Veterinary Professional Life IV (VET458)	MURDOCH: S1-internal	1
Veterinary Professional Life V (VET538)	MURDOCH: Y2-internal	6
Veterinary Structure and Function I (VET260)	MURDOCH: S1-internal (quota of 110 places)	3
Veterinary Structure and Function II (VET271)	MURDOCH: S1-internal (quota of 110 places)	3
Veterinary Structure and Function III (VET273)	MURDOCH: S2-internal (quota of 110 places)	3
Veterinary Structure and Function IV (VET274)	MURDOCH: S2-internal (quota of 100 places) (closed)	3
Veterinary Studies Masters Research Dissertation (VET649)	MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external	12
Wildlife Comparative Pathology (VET605)	MURDOCH: S2-internal, S2-external	3
Wildlife Comparative Pathology (VET664)	MURDOCH: S2-internal, S2-external	3
Wildlife Epidemiology and Disease Risk Analysis (VET606)	MURDOCH: S2-internal, S2-external	3



Wildlife Health and Conservation Dissertation (VET653)	MURDOCH: H-internal, H-external, Y-internal, Y-external	9
Wildlife Health and Conservation Project (VET654)	MURDOCH: H-internal, H-external, Y-internal, Y-external	9
Wildlife Medicine (VET631)	MURDOCH: S1-internal, S1-external	3

### Web Communication

### Points

Advanced Web Communication Project (WEB567)	MURDOCH: S2-internal	3
Business of Freelancing (WEB303)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Honours Thesis in Web Communication (WEB569)	MURDOCH: S1-internal, S2-internal, Y-internal	12
Honours Topic in Web Communication A (WEB561)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Honours Topic in Web Communication B (WEB562)	MURDOCH: S1-internal, S2-internal, Y-internal	3
Social Media Analysis (WEB566)	MURDOCH: S1-internal	3
Web Analytics (WEB564)	MURDOCH: S1-internal	3
Web Communication Professional Placement (WEB325)	MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement	3
Web Communication Project (WEB301)	MURDOCH: S1-internal, S2-internal KAPLAN-SGP: TMA-internal	3
Web Design (WEB263)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Web Metrics (WEB302)	MURDOCH: S1-internal KAPLAN-SGP: TJA-internal, TSA-internal	3
Web Planning (WEB565)	MURDOCH: S2-internal	3
Web Strategy (WEB278)	MURDOCH: S2-internal KAPLAN-SGP: TJA-internal, TSA-internal	3

### Workplace Learning

### Points

Structured Workplace Learning Placement -- Information Technology (WKP356)	MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal	12
Structured Workplace Learning Placement -- Information Technology (WKP356-03)	Not available this year	3

# Units

## 3D Animation (GAD365)

Credit Points: 3

MURDOCH: S2-internal

This unit focuses on the skills and theory required for 3D animation. A range of animation techniques will be explored with an eye towards commercial applications such as games and films. Students will develop an understanding of the core concepts of 3D animation techniques along with body mechanics thus creating physical movements that are believable. The units also draws on theory from related disciplines, including theatrical acting, traditional animation principles and new media theory.

Online lecture; media laboratories: 3 hours per week

Prerequisites: GAD241 Animation or MCC241 Animation

Exclusions: Students who have successfully completed MCC265 3D Animation may not enrol in this unit for credit.

## 3D Modelling (GAD164)

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on developing practical and conceptual skills in 3D modelling. Students are introduced to industry-standard tools and learn techniques in modelling, texturing and mapping. Students experience a variety of modelling challenges, including characters, props and environments, and learn each step of creative development, from planning to polishing. These skills are contextualised in relation to contemporary theories of spatial design, character development, and game design from varied arts fields, such as architecture, theatre and photography.

Online lecture; media laboratories: 2.5 hours per week

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC242 3D Modelling and Design or MCC164 3D Modelling may not enrol in this unit for credit.

## Academic Learning Skills (BAR100)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is for students enrolled in the BA degree. It will help you make the transition to university culture and introduce you to the range of lifelong learning skills needed at university and beyond. These include organisational as well as thinking, problem-solving and communication skills. It will develop interpersonal skills that encourage you to question, listen and act ethically; tolerate ambiguity, embrace openness, curiosity and intellectual risk-taking; and to make connections and work collaboratively.

Tutorials: 2.5 hours per week.

Prerequisites: Enrolment in a Bachelor of Arts, Bachelor of Asian Studies, Bachelor of Communication, Bachelor of Criminology, Bachelor of Media, Bachelor of Digital Media, Bachelor of Legal Studies, Bachelor of Psychology, Bachelor of Theology, or Bachelor of Tourism in Applied Events Management.

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

## Academic Skills for Business (BBS100)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit provides a range of generic learning skills specifically for BBus students. It aims to equip students with competency in communication skills in literacy, numeracy, and information technology in the context of Business Studies. These skills include reading and summing up academic papers, researching and writing essays, cogent argumentation, correct referencing, finding and evaluating information, as well as numeracy skills, including the interpretation of charts, graphs, tables and other visual materials.

Workshops: 2 hours per teaching week

Prerequisites: Enrolment in Bachelor of Business, Bachelor of Commerce, Bachelor of Economics, Bachelor of Business in Applied Accounting, or Bachelor of Digital Marketing and Media, Bachelor of Business in Sustainability

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

## Accounting for Managers (MBS539)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

While this unit provides an introduction to accounting issues relevant to both preparers and users of business reports, it predominantly explores the principles of financial and management accounting from a user perspective. The focus of the unit is on decision-making providing a practical understanding of how to analyse information obtained from the accounting system to assist in management decision making.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have completed MBS513/MBS5132/MBS5392 Accounting for Managers may not enrol in MBS539 Accounting for Managers for credit.

## Accounting for Managers (MBS5392)

*As for MBS539 except:*

Credit Points: 3

MURDOCH: SUM1-internal, U2-internal, U2-external

Seminars: South Street Murdoch 3 x 2.5 hours per week during the teaching semester.

Prerequisites: Enrolment in C1083 Postgraduate Certificate in Business Administration (MasterClass) or C1115 Graduate Certificate in Business Administration (MasterClass).

Exclusions: Students who have completed MBS513/MBS5132/MBS539 Accounting for Managers may not enrol in MBS5392 Accounting for Managers for credit.

**Accounting Processes (MBS544)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit provides the fundamental concepts and technical skills that students need for future units in accounting. By the end of the course, students will be able to record accounting transactions and produce relevant financial statements in accordance with Australian Accounting Standards. Topics include the double entry recording system, financial statements, valuation and measurement of assets, liability and equity. Students will also utilise QuickBooks software to facilitate their understanding of the computerised accounting process.

2.5 hour seminar per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: MBS539/MBS513 Accounting for Managers

Exclusions: Students who have completed MBS553 Accounting Processes may not enrol in this unit for credit.

**Accounting Theory and Accountability (BUS304)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

Develops higher-level analytical and critical thinking skills in the accounting domain. Topics include accounting theories, triple bottom line, measurement systems and the importance of understanding user needs and company impediments to financial reporting. The unit emphasises the acquisition of fundamental problem solving and communication skills and the link of governance, financial reporting and accountability to the fast changing corporate business environment. Corporate governance, ethics and innovation issues are also explored.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS285 or BUS217 Technology and Accounting Processes

Exclusions: Students who have successfully completed BUS310 Accounting Theory and Accountability may not enrol in this unit for credit.

**Accounting Theory and Governance (MBS679)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

The focus of this capstone accounting unit is on the theories that underpin contemporary accounting issues and accounting standards. Topics include accounting theories, measurement alternatives, governance and ethics, triple bottom line and social responsibility reporting and the importance of understanding user needs and impediments to transparent financial reporting.

This unit consists 3 hours seminar (one hour lecture and 2 hours workshops)

Prerequisites: MBS513/MBS539 Accounting for Managers

Exclusions: Students who have completed MBS633 Accounting Theory and Governance may not enrol in this unit for credit.

**Acquisition of Human Resources (MBS688)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TMD-internal  
KAPLAN-SGP: TMA-internal

For human resource management (HRM) to be effective it requires the development of effective practices that serve to resource, support and manage human resource systems. This unit covers the first phase of HRM including human resources planning, employer branding, recruitment and selection of staff. The description and use of selection tools and techniques is also outlined, including why and when they should be used, and the issues with each.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai  
Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS511 Acquisition of Human Resources may not enrol in this unit for credit.

**Acquisition of Skills and Motor Control (EXS205)**

Credit Points: 3

MURDOCH: S2-internal

This unit will cover principles relating to motor skill classification and measurement, the expert performance model and factors that limit expert motor skill performance, as well as instruction and practice principles that can be used to facilitate motor skill learning. An introduction to motor control theories will also be covered. The content has direct application to professions such as exercise physiology, sport science, sports coaching, physical education teaching and allied health.

Lectures: 2 hours per week; laboratories: 2 hours per week (see unit guide for details).

Prerequisites: Nil.

Exclusions: Student who have successfully completed CHI322/ EXS322 Acquisition of Skills and Motor Control may not enrol in this unit for credit.

**Acting and Production (EGL239)**

Credit Points: 3

MURDOCH: S1-internal

This unit seeks to provide students with basic acting and production skills. Students will perform in front of a small in-house audience to test these skills but the emphasis in the unit is on training. At the end of the unit, students will have learnt some basic acting and production skills and will have gained experience in the performance of a dialogue and an audition monologue.

Lecture: 1 hour per week; Workshops: 2 hours per week.

Rehearsals as required.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EGL226 Acting and Production I may not enrol in this unit for credit.

**Action Learning for Reflective Practitioners (EDN459)**

Credit Points: 3

MURDOCH: Y-external

This unit is designed for teaching professionals in a range of contexts, including early childhood education settings. It requires

the development, implementation and evaluation of a self-directed learning project based on action learning methodology, which addresses issues or problems within a specific teaching context. The project aims to improve and develop the student's teaching skills. The project offers an opportunity for theoretical perspectives to be translated and critiqued within a teaching context.

Nil.

All students are encouraged to share their learning via online discussion. Students need to locate a mainstream school-based early childhood classroom (Kindergarten to Year 2) to complete a total of 20 hours fieldwork.

Prerequisites: Enrolment in the last year of the Bachelor of Education (Early Childhood 0-8), and successful completion of EDN332 Children, Families and Communities or EDU321 Children, Families and Schools.

Exclusions: Students who have successfully completed EDN470 may not take this unit for credit.

### Action Learning for Reflective Practitioners (EDN470)

Credit Points: 4

Not available this year

This unit is designed for teaching professionals in a range of contexts, including early childhood education settings. It requires the development, implementation and evaluation of a self-directed learning project based on action learning methodology, which addresses issues or problems within a specific teaching context. The project aims to improve and develop the student's teaching skills. The project offers an opportunity for theoretical perspectives to be translated and critiqued within a teaching context.

Nil.

All students are encouraged to share their learning via online discussion. Students need to complete a total of 20 hours fieldwork.

Prerequisites: Enrolment in the Early Childhood and Primary Teaching (Four Years) (BE) OR Primary Teaching (Four Years) + Australian Indigenous Studies (BE)+(BA) OR Primary Teaching (Four Years) (BE)

Students enrolled in course B1269 will complete 20 hours of contact time with a group of children (Kindergarten - Year 2) to implement their action research.

Students enrolled in course B1081 will complete 20 hours of contact time with a group of children (Year 1-6) to implement their action research.

Students enrolled in course B1081 and the Inclusive Education minor will complete 20 hours of contact time with children who have special needs (Year 1-6) to implement their action research.

### Admiralty Law (LLB355)

Credit Points: 3

Not available this year

Admiralty law is an old, unique and international type of commercial law with continuing relevance. This unit deals with the liability of ships covering a range of types of liability such as salvage, collisions, liability to passengers, towage and marine pollution. It will deal with enforcement of admiralty claims, including maritime liens, admiralty procedures ('in rem' and arrest of vessels), and shipowners' right to limit liability. The unit will be useful to those interested in international commercial trade or shipping law.

Lectures: 2 hours per week.

Prerequisites: Successful completion of all Part I units in the LLB, and LLB260/LAW260 Contract Law.

Exclusions: Students who have successfully completed LAW355 Admiralty Law may not enrol in this unit for credit.

### Adolescent Health and Development (EDN445)

Credit Points: 4

Not available this year

This unit provides an introduction to health education from primary to year 12 level with an emphasis on adolescent health and development. Understanding the interplay of emotional, social and physical development of children during adolescence, teachers can enhance students' learning. Health frameworks and curriculum development of the Yr. 11 and 12 Health Studies units will be a component of this unit.

Lectures: 1 per week; workshops: 2 hours per week

Prerequisites: Enrolment in the BEd Secondary Teaching + Sports Science (BE)+(BSportsSc)

Exclusions: Students who have successfully completed EDN4451 Adolescent Health and Development may not enrol in this unit for credit.

### Adolescent Health and Development (EDN4451)

As for EDN445 except:

Credit Points: 2

Not available this year

Lectures: 1 per week; workshops: 2 per week.

Prerequisites: Students enrolled in BEd (Primary, 1-10 Health and Physical Education), or students enrolled in BEd(Secondary) + Sports Science (BSportsSc) who have completed the 8 credit point version of CHI3151.

Students who enrolled in BEd (Secondary Teaching) (Four Years), or BEd (Graduate) (Secondary Teaching) (Two Years) prior to 2013, are also required to enrol in this 2 point version of the unit.

Exclusions: Students who have completed, or are enrolled in, EDN445 Adolescent Health and Development.

This unit is to be taken in the Semester One of the final year of the students' course.

### Adolescent Health and Development (EDN446)

As for EDN445 except:

Credit Points: 3

MURDOCH: S2-internal, S2-external

Lecture/workshop: 2 hours per week

Online blended learning activities and lectures . 1 hour per week

Prerequisites: Enrolment in a Bachelor of Education Secondary Teaching (B1328 or B1329)

Exclusions: Students who have successfully completed EDN445 or EDN4451 may not enrol in this unit for credit

### Adult Learning in Education and Work (EDU645)

Credit Points: 3

MURDOCH: S2-external

This unit examines contemporary approaches to adult learning in academic, vocational and community learning settings, including professional development and workplace learning. By the end of this unit, participants should have developed a sound understanding of the multidimensional, interactive, dynamic and socio-culturally situated nature of adult learning. They should be well prepared for designing learning environments which facilitate

the development of meaningful knowledge and its application within an education or work setting.

External: No attendance required.

External: No attendance required. Some on-campus meetings will usually be available.

External: No attendance required.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

Exclusions: Students who have successfully completed E446 Adult Learning in Education and Work may not enrol in this unit for credit.

To undertake study in this unit, you will need access to a computer and:

- . Internet access
- . Web camera and audio (or access to a computer with these facilities)
- . A suite of software programs including word processing and presentation programs, such as Microsoft Office (Word, PowerPoint) or Apple iWork (Pages, Keynote).

### **Advanced Power Electronics (ENG558)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides a deeper understanding of power electronic circuits, converters and systems. It covers power semiconductor devices, AC-DC, DC-DC, DC-AC and AC-AC converters. Industrial applications of power electronic systems will be also presented.

Lectures/tutorials/meetings/laboratories: By arrangement with the Unit Coordinator.

Prerequisites: Enrolment in Graduate Diploma of Engineering or Master of Engineering.

### **Advanced 3D Modelling (GAD363)**

Credit Points: 3

MURDOCH: S1-internal

This unit develops 3D modelling skills, techniques and theory towards an emphasis on advanced 3D form, anatomy, character design, rigging, environments, props, textures and materials for a range of digital environments.

Online lectures: 1 hour; laboratories: 3 hours.

Prerequisites: GAD164/MCC164 3D Modelling

### **Advanced Anaesthesia and Critical Care (VET660)**

Credit Points: 3

MURDOCH: S1-external (quota of 30 places)

The Anaesthesia component of this unit will provide foundations for complex anaesthesia and analgesia problems, including pre-anaesthetic preparations, monitoring, pain management, fluid therapy and anaesthesia for specific diseases. The Critical Care component will focus on identification of problems within critically ill patients and managing those problems, including circulatory support, respiratory support, bleeding problems, fluid and electrolyte balance, transfusion therapy and nutrition.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022), the Postgraduate Certificate in Veterinary Studies in Small Animal Practice (C1074), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

Exclusions: Students who have successfully completed VET627 Veterinary Anaesthesia and Critical Care may not enrol in this unit

for credit.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### **Advanced Biblical Interpretation Seminar (THE617)**

Credit Points: 3

Not available this year

This unit introduces various methods that can be used in interpreting biblical texts, and shows how interpretation of a text will vary depending on the hermeneutical approach or method of interpretation used. It allows students to develop skills in interpreting texts from both the Old and New Testaments, using the various methods that come under the umbrella of historical critical methods (e.g. source, form, and redaction criticism) and newer literary methods (e.g. rhetorical, feminist, post-colonial criticism).

Seminars: 1 x 2 hours per week.

Prerequisites: THE505 Thinking Theology; THE510 Emerging Christian Theology - The Creeds (100-500CE); THE507 Introduction to the New Testament; THE506 Introduction to the Old Testament.

### **Advanced Business Analysis and Design (ICT353)**

Credit Points: 4

DUBAI-ISC: TSD-internal

This unit will build on earlier studies in Systems Analysis and Design with an emphasis on business process modelling. The concepts of business process modelling will be examined and the tools that can be used to analyse, model, and design business processes introduced. Agile system development methodologies will be contrasted with more formal approaches and the unified process life cycle model examined. Package evaluation and selection, and global distributed development processes will also be covered.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT231 Systems Analysis and Design or ICT284 Systems Analysis and Design.

### **Advanced Business Analysis and Design (ICT393)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit will build on earlier studies in Systems Analysis and Design with an emphasis on business process modelling. The concepts of business process modelling will be examined and the tools that can be used to analyse, model, and design business processes introduced. Agile system development methodologies will be contrasted with more formal approaches and the unified process life cycle model examined. User experience design and software evaluation and selection will also be covered.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT231/ICT284 Systems Analysis and Design.

Exclusions: Students who have successfully completed ICT353 Advanced Business Analysis and Design cannot enrol in this unit for credit.



**Advanced Business Data Communications (ICT535)**

Credit Points: 3

MURDOCH: S2-internal

This unit is an intermediate unit that extends the study of LAN architecture previously covered and examines ways in which local networks can be interconnected to form a Wide Area Network. Virtual circuits are explored using Frame-Relay, while the Point-to-Point-Protocol is used as a contrasting approach. Complex interconnections require dynamic routing protocols and this unit examines RIP, EIGRP and OSPF. Access Control Lists are introduced as a foundation for security. Subsequent units advance these topics.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT546 Local Area Network Design and Implementation and enrolment in a graduate-level IT course.

This unit makes use of two modules of the Cisco Systems Networking Academy CCNA curriculum. Namely, 'Routing Protocols and Concepts' and 'Accessing the WAN'. The expectation is that students who apply themselves to the activities within this unit will be adequately prepared to sit the, externally administered, Cisco Certified Network Associate (CCNA) exam if they choose to do so.

**Advanced Criminology (CRM306)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The Unit will challenge students to examine the relevance of the theory they have learned throughout their degree when attempting to explain examples of real criminal behaviour. There will be a focus on group work and engaging with contemporary literature and research in a manner that would parallel a policy officer working in a criminal justice agency

Tutorial: 2 hours hrs every fortnight commencing week 2

Prerequisites: Enrolment in a Criminology major and successful completion of CRM100 Introduction to Criminology, CRM201 Policing and Crime Prevention, CRM203 Criminal Behaviour (or concurrent enrolment in CRM203).

**Advanced Crop and Pasture Science (ANS312)**

Credit Points: 3

Not available this year

This is the capstone unit for the Crop and Pasture Science major and considers the detailed principles of growing crops and pastures, including understanding advanced agricultural science approaches such as plant breeding, molecular agriculture and biotechnology. Using case studies based on major Australian farming systems it will bring together the learning from across the major and emphasise the importance of understanding the role of soils, crop protection and biosecurity, agricultural technologies and agricultural markets, economics and policy in modern agriculture.

Lectures: 2 hours per week; practical work and field excursions: equivalent to 2 hours per week.

Prerequisites: ANS207 Crop and Pasture Science and ANS208 Crop Protection and Plant Biosecurity

**Advanced Data Analysis (ICT602)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to advanced computational intelligence and statistical concepts and tools used for harvesting, processing, analysing and visualising real-world data. Students will develop an in-depth understanding of the nature of data specific to various application domains, and learn how to design and implement solutions using a combination of machine learning and statistical analysis methods and tools. Students will look at a number of characteristic problems/data sets and use the Python programming language to implement prototype solutions.

Workshops: 3 hours per week (incorporating lecture: 1 x 2 hours per week; practicals: 1 hour per week).

Prerequisites: ICT515 Foundations of Data Science or ICT513 Data Analytics.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the workshop exercises for that week. In addition, each student is required to complete an assignment and sit the final examination.

**Advanced Ecology (ENV526)**

Credit Points: 3

MURDOCH: S2-external

This unit examines current theoretical and applied approaches to ecology and covers topics that are, or have emerged as, important ecological sub-disciplines at a global scale. Emphasis is placed on developing problem solving skills and critically evaluating ecological studies as well as a series of modelling exercises central to ecological sampling design.

Lectures/tutorials: 12 x 2 hours; workshop sessions: 4 x 3 hours during the 15 week semester (Weeks 4, 7, 8 and 10).

Prerequisites: Enrolment in Bachelor of Marine Science or Graduate Certificate in Environmental Assessment and Management or Graduate Certificate in Environmental Science or Graduate Diploma in Environmental Science.

**Advanced Economic Analysis: Honours (MBS545)**

Credit Points: 3

MURDOCH: S2-internal

The aims of this unit are to provide an evaluation of contemporary approaches to economic theory, to utilize contemporary theory to gain an understanding of the nature of economic problems confronting Australia and the role economic policy may play in meeting these problems. Students will be expected to critically evaluate competing theoretical perspectives. The unit also aims to develop student's research and presentation skills.

Nil. The unit will be run as a reading unit with students studying selected topics independently.

Prerequisites: Enrolment in Bachelor of Economics with Honours.

Exclusions: Students who have completed BUS425 Advanced Economic Analysis: Honours may not enrol in this unit for credit.

**Advanced Educational Research Seminar (EDU701)**

Credit Points: 3

Not available this year

Participation in regular research seminars with the Unit lecturer or other research seminars/conferences approved by the Unit lecturer.

Prerequisites: Enrolment in the Doctor of Education or Master of Education (Research).

**Advanced Games Design and Programming (ICT397)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit extends the material studied in ICT290 Games Design and Programming with an emphasis on the construction of efficient and re-usable games software. It provides an advanced and in-depth coverage of theory, algorithms and software engineering techniques underlying various game engine components. Topics include software design patterns, 3D character animation, intelligent character simulation, scripting, collision detection, and simulation and manipulation of 3D terrains. Further topics may include issues with Internet-based multi-player online games.

Lectures: 1 x 2 hours per week; Computer Laboratory: 1 x 2 hours per week (1 hour supervised).

Prerequisites: ICT290/ICT207 Games Design and Programming.

Exclusions: Students who have successfully completed ICT311 Advanced Games Design and Programming may not enrol in this unit for credit.

**Advanced Honours Research Preparation (MBS517)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

Prerequisites: Enrolment in Honours in Commerce.

Exclusions: Students who have completed BUS4013 Advanced Honours Research Preparation may not enrol in this unit for credit.

**Advanced Honours Topic A (MBS516)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Bachelor of Business.

Exclusions: Students who have completed BUS4011 Advanced Honours Topic in Commerce may not enrol in MBS516 for credit.

**Advanced Honours Topic B (MBS512)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Bachelor of Business.

Exclusions: Students who have completed BUS4012 Advanced Honours Topic in Commerce may not enrol in this unit for credit.

**Advanced Honours Topic in Economics (MBS500)**

Credit Points: 3

Not available this year

In Australia and throughout the world, governments face a challenging and complex set of economic issues which require timely and appropriate policy responses to assist in the welfare and

well-being of current and future generations. This unit explores and applies economic concepts and theories to specific Australian microeconomic and macroeconomic policy issues. Key current policy settings and debates will be discussed and evaluated.

nil

Prerequisites: Enrolment in Honours in Economics.

Exclusions: Students who have completed BUS4001 Advanced Honours Topic in Economics may not enrol in this unit for credit.

**Advanced Human Resource Perspectives (BUS340)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit focuses on managing human resources at a strategic level, in order to meet organisational goals pertaining to sustainability and competitive advantage. It aims to give students an understanding of how effective implementation of human resource management practice offers benefits to both the organisation and the individual. Topics covered will be broad and include, but are not limited to, attraction and retention of staff, how to manage performance, rewarding employees, career management and contemporary issues in HR practice.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: Students enrolled in B1318 must have completed BUS297 AND BUS293 Or

students enrolled in B1003 must have completed BUS240 (or BUS297) Or

students enrolled in other courses must have completed BUS223 (or BUS293) AND BUS240 (or BUS297).

Exclusions: Students who have successfully completed BUS320 Advanced Human Resource Perspectives may not enrol in this unit for credit.

**Advanced Information Technology Research Project (ICT708)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The purpose of this unit is to provide students with the skills, knowledge and experience to conduct research in computer science and/or information systems. The unit provides students with the opportunity to gain research experience and training by undertaking a substantial research project of their choice. The research undertaken in this unit will provide the foundation study for the subsequent thesis unit ICT702 Doctor of Information Technology Thesis.

Seminars/supervisor meetings: 1 hour per week average.

Prerequisites: Enrolment in the Doctor of Information Technology.

**Advanced IT Study Project (ICT517)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, U-internal

The purpose of this unit is for students to study an advanced topic within the information technology community that is of personal interest to the student but not available as a formal unit. Students will be in regular contact with their academic supervisor and submit reports for assessment.

Seminars: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level IT course. or

permission of the Academic Chair.

Exclusions: Students who have completed ICT617 Advanced IT Study Project may not enrol in this unit for credit.

### Advanced Media Seminars (SCR538)

Credit Points: 6

Not available this year

This unit prepares students for on-set activity by exposing them to advanced and intensive seminars with local industry professionals. The topics covered in theory and practice include on-set safety, gripping, camera, lighting, production design, and sound recording. This prepares students to be capable in many aspects of professional screen production work, and provides them with valuable industry insights and connections.

Students will attend ongoing weekly seminars which cover theoretical and practical instruction to prepare students for on-set work. Seminars are usually 4 consecutive days of 3 hour sessions each morning, and homework will often be given.

Prerequisites: Enrolment in Graduate Diploma in Media Production.

### Advanced Mental Health Nursing (NUR614)

Credit Points: 3

Not available this year

Critically examines mental health theory appropriate to selected areas of mental health clinical specialty. Coursework will be set in the area of mental health clinical specialty with core components of counselling, advanced assessment skills and advanced risk assessment/management skills. Facilitates students' critical examination of contemporary and past mental health nursing practice with a view to determining best practice.

Prerequisites: Enrolment in a graduate-level Nursing course.

### Advanced Mineral Processing (ENG566)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Incorporates the main aspects of mineral processing. Enables students to follow the material in Extractive Metallurgy I and Extractive Metallurgy II, and qualify for professional member status with The Australasian Institute of Mining and Metallurgy. Deals with sampling, particle characterisation, comminution and classification, physical processes of mineral concentration involving dense media and gravity separation, magnetic and electrostatic separation and ore sorting techniques. Froth flotation of minerals, coagulation, flocculation, agglomeration, dewatering of concentrates and tailings disposal are covered.

Lectures: 3 hours per week.

Prerequisites: Students need to have completed ENG524 Metallurgical Unit Operations and ENG565 Mineralogy for Metallurgists, or have approval by the unit coordinator, prior to enrolling in this unit.

Exclusions: Students who have completed EXM504/301 Mineral Processing or ENG324 Principles of Mineral Processing are not eligible to enrol in this unit for credit.

### Advanced Network Design and Implementation (ICT372)

Credit Points: 3

MURDOCH: S2-internal

This unit examines the advanced routing topics associated with the design and management of large-scale IP networks. The

technologies covered are typically found in large corporate, government, telecommunication carrier and ISP networks. Topics include: Network design, verification plans, EIGRP, OSPF, IGP redistribution, policy-based routing and IP service-level agreement (IP SLA), BGP, IPv4 and IPv6 coexistence, and routing over branch Internet connections.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: ICT120 Principles of Data Communications OR ICT291 Network Design and Implementation.

Exclusions: ICT347 Advanced Network Design.

### Advanced Pastoral Practicum (THE626)

Credit Points: 3

MURDOCH: S1-external, S2-external

This unit consists of experience and reflection in a work situation or institutional setting. It provides an opportunity for students to exercise skills in ministry under supervision with a view to further develop these skills and to deepen theological awareness of the issues involved in ministry/chaplaincy.

The timetabling of learning activities is negotiated in each specific practicum. The practicum is 10.7 hours/week (or 150 hours overall), including 1 hour of supervision/week.

Prerequisites: THE512 Pastoral Practicum

Students need to contact the unit coordinator in advance of the semester in which THE512 is to be taken.

### Advanced Photographic Studio (PHO306)

Credit Points: 3

MURDOCH: S1-internal

Advanced photographic practice, lighting and studio technique. Covers all major aspects of controlled lighting and studio based photographic practice. This course introduces students to advanced techniques in studio lighting and their creative applications. The course focuses on the use of artificial lighting techniques for studio lighting set-ups in addition to specific lighting techniques for portraiture and still life. The emphasis is on the development of studio based technical skills central to the advancement of the student's portfolio work.

Workshop: 2.5 hours.

Prerequisites: PHO124 Photography 1 and PHO203 Photography 2.

### Advanced Principles and Practices in Early Childhood Education (EDN520)

Credit Points: 3

MURDOCH: S1-external

This unit addresses theories of play and development, learning, and pedagogy for young children specifically children from birth to five years. It is designed for practicing primary school teachers who wish to make the early years a specialisation.

Nil.

Prerequisites: Enrolment in the; Graduate Diploma in Early Childhood Education and Care, Graduate Certificate in Early Childhood Education, OR Master of Education (Coursework).



### **Advanced Process and Instrumentation Engineering (ENG308)**

Credit Points: 3

MURDOCH: S1-internal

The unit introduces the concepts of Process Engineering from the Control Engineering perspective, and focuses on engineering principles of the operation and control of industrial processes. Fundamental engineering knowledge of thermodynamics, fluid dynamics, heat and mass transfer and their applications are studied.

Unit operations based on these fundamentals are investigated in the context of a working process plant. A professional software package ASPEN is used to model, simulate and design single unit operations and the whole processes in a design project.

Lecture: 1 x 2 hours per week; workshops: 1 x 2 hours per week; computer lab: 1 x 2 hours per week.

Prerequisites: ENG298/ENG241 Principles of Process Engineering; ENG294 Discrete Time Systems and ENG299/ENG267 Control Systems and Process Dynamics.

### **Advanced Projects in Chemistry and Mineral Science (CHE309)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

Most laboratories undertaken as an undergraduate student are limited to a single 4 hour session. However, scientific investigations in the workplace are often conducted over days or months. Additionally, scientists may have to search literature, develop methods, and incorporate data from bioassays/industrial processes into their work. This project unit allows students to undertake a semester long research study under the guidance of a member of the Chemical and Analytical Sciences staff, providing valuable experience in scientific practice.

No formal timetabling. Students will complete a minimum of 54 hours laboratory work, organised individually in consultation with Supervisor.

Prerequisites: Students need to have completed a minimum of 24 points at Part II level.

Exclusions: Students who have successfully completed CHE306 Advanced Projects in Chemistry and Mineral Science cannot enrol in this unit for credit.

### **Advanced Protected Area Management and Planning (ENV637)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops an advanced understanding of the planning, management and governance of protected areas. The place of protected areas in broader land- and seascapes and as part of broader society will be intensively analysed. Balancing multiple values, such as nature conservation, tourism, and Indigenous and cultural heritage, and understanding and managing critical landscape processes such as fire, pests and weeds are pivotal concerns. Emphasis is placed on global case studies, with adaptive management a particular focus.

Lectures: 2 hours per week; tutorials: 1 hour per week; field trips: 1 x 15 hours.

Two field trips each 1 day duration.

Prerequisites: Enrolment in a Masters-level qualification.

### **Advanced Psychological Assessment (PSY598)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines the major theoretical issues, practical applications and ethical considerations associated with individual and group psychological assessment and measurement techniques.

Lectures: 3 hours per week.

Prerequisites: Enrolment in Graduate Diploma in Psychology (GradDipPsych), Psychology with Honours (BA (Hons)) or Psychology with Honours (BSc (Hons)).

Exclusions: Students who have successfully completed PSY431 Psychology: Principles of Psychological Assessment may not enrol in this unit for credit.

### **Advanced Qualitative Approaches to Research (EDU743)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit addresses the way that qualitative research strengthens our ways of inquiring into, and understanding the social world. The unit highlights the processes of conceptualising, designing and conducting a qualitative research project through focussing on the practical skills involved in, and thinking behind, a humanistic inquiry. More specifically, we interrogate the way that theory, methodology and research methods interact in multi-modal and pluralistic ways to influence questions asked, methods used, data collected, and processes of sense-making and understanding.

Internal: 3 hours per week (including lectures, seminars, tutorials and workshops).

Prerequisites: Successful completion of/or concurrent enrolment in EDU603/610 Introduction to Research for Educators, or successful completion of EDU434/F634 Qualitative Research Methods I, or PSY315 Psychology: Qualitative Methods, or permission of the Unit Coordinator.

In order to progress to the dissertation component, students must achieve a minimum of 65% across all units, a minimum of 65 % in Research Methodology units and pass the exam.

### **Advanced Quantitative Research Methods (BSC302)**

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit provides students with a sophisticated appreciation of statistical and methodological issues in psychological research. Advanced statistical procedures will be addressed, including higher-order analysis of variance designs, analysis of covariance, multivariate analysis of variance, nonparametric statistics, factor analysis, multiple linear regression, and analytical strategies for multiple comparisons. In addition to gaining a conceptual understanding of these procedures, students will apply them to the practical analysis of data using the SPSS statistical package.

Lectures: 1 hour per week; Workshops: 6 x 2 hour sessions per semester.

Prerequisites: BSC201 Psychology: Measurement, Design and Analysis OR PSY212: Psychology: Measurement, Design and Analysis.

Exclusions: Students who have completed PSY311 Psychology: Advanced Quantitative Research Methods are not allowed to enrol in this unit for credit.

This unit replaces BSC300 for students in the BSc (Psychology) and (Cognitive Neuroscience and Health Psychology) majors, and BAR300 for students in the BA (Social and Developmental Psychology) major.

### Advanced Research in the Arts (BAR300)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This unit will give Bachelor of Arts students the opportunity to apply the research skills and methods they have learned in their studies to real-life situations, problems and phenomena. Assessment for the unit will focus on a grant-writing project, with lectures and workshops designed to assist students in designing and implementing a research approach from the many intellectual resources of the Arts, including Practice-Led research, phenomenology, ethnography and quantitative analysis.

Lectures: 1 hour/week for 6 weeks; Workshops 2 hours/week for 11 weeks, commencing week 2 .

Prerequisites: BAR200 Developing Research Skills and Methods.

### Advanced Research Methods (ART604)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The unit will introduce basic research topics: constructing a thesis, referencing and bibliographies; and some of the fundamental approaches used in the various disciplines of Social Sciences and Humanities. Students undertaking the unit must have a research supervisor, and enrol in the unit during the period they are beginning their research.

This unit is offered in an intensive mode in the first 4 weeks of semester with two (2) three-hour seminars each week.

Prerequisites: Enrolment in Honours or a graduate-level (AQF level 9) course.

It is imperative that students undertaking the unit have a research supervisor, and enrol in the unit during the period they are beginning their actual research dissertation or project.

A result of Ungraded Pass or Fail is awarded for this unit.

### Advanced Research Methods for Scientists (VLS683)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students will explore advanced approaches to research design and analysis, engaging with issues influencing decision-making in research including science communication and professionalism. Both quantitative and qualitative methods will be covered. Practical skills such as literature discovery, data management and analysis, and poster production are the focus of workshop sessions. Knowledge and skills will have relevance to students interested in progressing their academic career as well as those working and intending to work in industry, government and not-for-profit sectors.

This unit has two week long sessions (0 week in S1 and S2, first non-teaching week of S1 and typically week 7 of S2) and a single 4-hour poster session near the end of semester (typically week 13, S1 and S2).

Prerequisites: Enrolment in Honours or a graduate-level (AQF level 9) course or Bachelor Environmental Science.

Exclusions: Students who have successfully completed ENV523 Environmental Science Research Methods or ENV683 Advanced

Environmental Science Research Methods may not enrol in this unit for credit.

Honours students are advised to complete this unit in their first semester of enrolment.

### Advanced Routing (ICT611)

Credit Points: 3

MURDOCH: S2-internal

This unit examines the advanced routing topics associated with the design and management of large-scale IP networks. The technologies covered are typically found in large corporate, government, telecommunication carrier and ISP networks. Topics include: Network design, verification plans, EIGRP, OSPF, IGP redistribution, policy-based routing and IP service-level agreement (IP SLA), BGP, IPv4 and IPv6 coexistence, and routing over branch Internet connections.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT535 Advanced Business Data Communications; enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT647 Advanced Network Design may not enrol in this unit for credit.

### Advanced Screen Production (MCC302)

Credit Points: 4

DUBAI-ISC: TMD-internal

This is a follow-on unit from MCC201 Professional Development in Screen Production and MCC353 Writing for the Screen. It provides students with an opportunity for creating a short film production of their choosing in the available media of film or digital video. The unit is designed with a degree of individual flexibility and programs of work can be designed to meet specialist needs. Students are encouraged to produce a portfolio of work for future Screen Production career purposes.

Lectures: 1 hour per week; workshops: 2 hours per week.  
Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Prerequisites: MCC201 Professional Development in Screen and Sound Production (or MED301 Professional Development in Screen Production or MED301 Screen Projects).

Exclusions: Students who have successfully completed MED302 Advanced Screen and Sound Production may not enrol in this unit for credit.

### Advanced Screen Production (SCR320)

Credit Points: 3

MURDOCH: S2-internal

This is a follow-on unit from MCC201/SCR312 Professional Development in Screen Production and MCC353/SCR200 Writing for the Screen. It provides students with an opportunity for creating a short film production of their choosing in the available media of film or digital video. The unit is designed with a degree of individual flexibility and programs of work can be designed to meet specialist needs. Students are encouraged to produce a portfolio of work for future Screen Production career purposes.

Lectures: 1 hour per week; workshops: 2 hours per week.  
Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Prerequisites: SCR312 Professional Development OR SCR222 Production Development OR SCR304 Documentary Production

Exclusions: Students who have successfully completed MCC302 Advanced Screen Production may not enrol in this unit for credit.

### Advanced Skills and Motor Control (EXS305)

Credit Points: 3

MURDOCH: S1-internal

This unit continues from EXS205 Acquisition of Skills and Motor Control by covering topics including but not limited to: advanced motor control theories; neurophysiological basis of motor control; motor control disorders and their neural origin; motor control deficits that accompany common disorders of the somatosensory system, basal ganglia, cerebellum and motor cortex; advanced topics related to motor skill expertise, transfer as well as principles for structuring learning and re-learning of perceptual-motor skills.

Lectures: 2 hours per week; laboratories: 2 hours per week (see unit guide for details).

Prerequisites: EXS205 Acquisition of Skills and Motor Control

Exclusions: Students who have successfully completed EXS330/CHI330 Advanced Skills and Motor Control may not enrol in this unit for credit.

### Advanced Sport and Exercise Psychology (EXS301)

Credit Points: 3

MURDOCH: S2-internal

The unit provides students with contemporary knowledge on the application of Sport and Exercise Psychology to the elite sport domain. Based on the scientist-practitioner model (Barlow, Hayes and Nelson, 1984) the unit encourages students to become familiar with research methods and develop competence in creating and consuming science in the field of Sport and Exercise Psychology.

Lectures: 2 hours; workshops: 2 hours.

The research project includes involvement in physical activity in the Sports Science laboratory of the School of Psychology and Exercise Science and occurs during the scheduled workshop.

Prerequisites: EXS201 Sports Psychology.

Exclusions: Students who have successfully completed CHI331/EXS331 Advanced Sports Psychology may not enrol in this unit for credit.

### Advanced Studies in Theatre and Performance (EGL349)

Credit Points: 3

MURDOCH: S2-internal

This unit consolidates the practical, conceptual and theoretical work covered in the Theatre and Drama Major from performance, production and analytical perspectives. It offers students knowledge, experience and skills in the theory and practice of advanced theatre and performance. It focuses on theatre/performance theories and practice, discussing significant contemporary international companies and practitioners. Students have the opportunity to test these models in workshops, performances and a final production. This production will be directed by a professional working in contemporary theatre.

Seminar/workshop: three hours per week

Rehearsals as required, including intensive rehearsals in final production week.

Prerequisites: EGL236 Performance and Creative Arts

### Advanced Study Topics (CHI678)

Credit Points: 4

Not available this year

This unit offers the students an opportunity to pursue advanced areas of study in topics that will expand the knowledge framework contained within the Masters course. The topic of interest should be used to gain expertise in their chosen field of interest and result in an expansion of their practical skills that will be required in industry or research. It is a requirement that the chosen special topic be approved by the Unit Coordinator and the Academic Chair of graduate courses.

Prerequisites: Enrolment in the Master of Neuromusculoskeletal Rehabilitation including completion of 24 points of graduate work such as the Postgraduate Certificate/Diploma in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Sports Chiropractic, or their equivalents.

### Advanced Supervised Legal Research (LLB583)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

This unit offers students the opportunity to work with a staff member who has agreed to supervise a substantial project of legal research in the staff member's area of expertise. Active participation in the supervision process and production of a substantial piece of legal writing, in the form of a 7,000-8,000 word research essay is required.

Meetings: up to 10 hours in total

Prerequisites: Nil.

### Advanced Surgical Techniques (VET647)

Credit Points: 3

MURDOCH: S1-external (quota of 25 places)

In this unit students will explore and discuss a combination of soft tissue and orthopaedic surgical topics. The theme of the unit is the surgical management of traumatic injuries in small animals. The soft tissue section of the unit deals with wounds and wound management, while the orthopaedic section covers the management of fractures.

40 hours workshop and wetlab.

Prerequisites: Enrolment in the Master of Veterinary Studies, Doctor of Veterinary Medical Science, or Master of Veterinary Clinical Studies.

Exclusions: Students who have successfully completed VET523 Surgery 1 and VET524 Surgery 2 may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### Advanced Taxation Law (LLB317)

Credit Points: 3

Not available this year

This unit builds on the principles studied in Basic Principles of Taxation Law, which focuses on the taxation of individuals. Advanced Taxation Law covers: (i) the taxation of companies, partnerships and trusts; (ii) aspects of international taxation, including residence and source; and (iii) the anti-tax avoidance provisions of the Income Tax Assessment Acts 1936 and 1997, particularly Part IVA. The unit also provides an introduction to: (i)

the goods and services tax; and (ii) the taxation of superannuation.

Seminar: 24 hours over the semester. (2 hours per week).

Prerequisites: LLB316 Basic Principles of Taxation Law

### Advanced Topic in Media Production (SCR510)

Credit Points: 6

Not available this year

The aim of this unit is to empower students with the ability to further develop film ideas from scripts written in semester 1 of this course. This includes learning many of the crucial aspects of film producing, such as budgeting, financing, legals, marketing, distribution, etc. It also involves learning to direct actors, as well as crew, camera, and coverage, within the filmic process.

Students will attend intensive seminars and workshop sessions for professional instruction and guidance. Each topic will run for four days of 3-hour sessions. Students will often be expected to undertake homework outside of seminar/workshop times.

The collaborative conception and development of ideas and projects is encouraged in this unit, and will more closely align students with an industry experience.

Prerequisites: Enrolment in Graduate Diploma in Media Production.

### Advanced Topics in Equine Practice (VET543)

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in the discipline of equine practice. Students will have the opportunity to extend their theoretical knowledge and develop species-specific skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off campus.

Timetabled activities during the first 4 weeks of streaming involve the following:

- \* In clinic - daily in the morning, 20 hours/week
- \* Pracs/labs - mostly held in the afternoons, 3 hours duration, 2-3 times per week
- \* Tutorials - mostly held in the afternoons, 3 hours duration, 2-3 times per week
- \* Guest lectures - 1.5 - 2 hours duration, one per week
- \* Excursions - one afternoon, 1-2 only

The second eight weeks of the unit involve placements (externships) mostly at equine practices anywhere in the world. Students must spend a minimum of 1 week and no more than 3 weeks at each practice but ideally should spend 2 weeks (14 days). Students may be allowed to complete one 2 week block of clinical placement in the University's equine hospital. They may also complete one two week rotation in another stream, not related to equine.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET457, VET463, VET454, VET453, VET458, VET452, VET455, VET419, VET451.

Concurrent enrolment or completion of VET585, VET586, VET587, VET590 and VET538.

### Advanced Topics in Equine Practice (VET643)

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in the discipline of equine practice. Students will have the opportunity to extend their theoretical knowledge and develop

species-specific skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off campus.

### Advanced Topics in Exercise Physiology (EXS504)

Credit Points: 3

MURDOCH: T3-internal

Workshops: 2 hours

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys; and completion of either EXS501 or EXS502 or EXS503.

Exclusions: Students who have successfully completed CHI569/EXS569 Advanced Topics in Exercise Physiology may not enrol in this unit for credit.

### Advanced Topics in Exercise Physiology (EXS569)

Credit Points: 2

MURDOCH: T3-internal

This unit will provide the student with an advanced understanding of high-interest areas and current topics in the field of Exercise Physiology. Advanced topics discussed may include evidence-based exercise programs, ergonomics and assessment of activities of daily living.

Workshops: 2 hours.

Prerequisites: The successful completion of either CHI552/EXS552 Cardiopulmonary Rehabilitation or CHI553/EXS553 Neuromuscular Rehabilitation or CHI551/EXS551 Metabolic Rehabilitation.

Exclusions: Student who have successfully completed CHI569 Advanced Topics in Exercise Physiology may not enrol in this unit for credit.

### Advanced Topics in Health Informatics and Bioinformatics (SWM531)

Credit Points: 3

Not available this year

Health Informatics is an evolving scientific discipline concerned with the management of healthcare data, information and knowledge. This Unit builds on the knowledge gained from Unit SWM639 Principles of Health Informatics, and provides advanced knowledge to critically examine key healthcare topics embedded within context of information communication technology, namely: Business case development and project management, Consumer engagement and empowerment, Key features of the Australian healthcare sector, Big data and analytics, Bioinformatics and Telemedicine.

It is envisaged a field trip to Fiona Stanley Hospital to take a tour of the Telemedicine capability which has witnessed a dramatic increase from 40 weekly appointments to over 400 weekly appointments, that significantly reduces the amount of return visits for rural-based outpatients required to return to the hospital for a follow-up appointment.

Prerequisites: Enrolment in a graduate level course

### Advanced Topics in Mixed Animal Practice (VET542)

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in the discipline of mixed veterinary practice. Students will have the opportunity to extend their theoretical knowledge and

develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off campus.

Approximately 40 hours per week.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET457, VET463, VET454, VET453, VET458, VET452, VET455, VET419, VET451.

Concurrent enrolment or completion of VET585, VET586, VET587, VET590 and VET538.

### **Advanced Topics in Mixed Animal Practice (VET651)**

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in the discipline of mixed veterinary practice. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off campus.

### **Advanced Topics in Physics and Nanotechnology: Experimental (PEN523)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit extends the study of solid state and surface physics with practical aspects of interactions between radiation fields and matter. Analytical and experimental techniques are introduced by providing the theoretical background and laboratory practices necessary for undertaking experimental research in physics and nanotechnology. Nanocharacterisation and surface analysis techniques included in this unit are: vacuum, thin film fabrication, microscopies (FESEM, TEM, AFM and STM) and spectroscopies (XRD, XPS, AES, FTIR Raman, UV-Vis and synchrotron radiation facility).

Lectures: 20 hours per semester (2 hours/week for 10 weeks); tutorials: 10 hours per semester (1 hour/week for 10 weeks); laboratories (Internal students): 18 hours per semester; laboratories: (External students): 4-day on-campus laboratory session.

Students may have a chance to access the Australian Synchrotron radiation facility.

Prerequisites: PEN332 Electromagnetism; PEN317 Physics of Materials.

External students will be required to attend a compulsory 4-day laboratory session.

### **Advanced Topics in Physics and Nanotechnology: Theoretical (PEN530)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit investigates the theory behind the surface analysis methods used in materials science. The introduction deals with solid surfaces, their structure and composition and UHV basics. There is a section on analysis techniques, for example electron microscopy, sputter depth profiling, SIMS, AES, XPS, scanning probe microscopy and LEED. The final section looks at some of the applications for which these techniques can be used, such as investigating semiconductor devices and thin film analysis.

Lectures/tutorials: 1 x 3 hours per week.

Prerequisites: PEC231/PEN231 Modern Physics and PEC317/PEN317 Physics of Materials.

### **Advanced Topics in Production Animal Practice (VET544)**

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in veterinary aspects of production animal medicine. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off-campus.

Approximately 40 hours per week.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET457, VET463, VET454, VET453, VET458, VET452, VET455, VET419 and VET451.

Concurrent enrolment or completion of VET585, VET586, VET587, VET590 and VET538.

### **Advanced Topics in Production Animal Practice (VET644)**

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in veterinary aspects of production animal medicine. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off-campus.

### **Advanced Topics in Small Animal Practice (VET541)**

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in the discipline of small animal practice. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students may be required to participate in learning activities off-campus.

All contact time involves clinical case contact in the teaching hospital.

Two weeks of external placement related to the field of small animal practice can be undertaken as part of this Unit. Self-directed learning between scheduled activities is encouraged during the rotation, centred on clinical cases seen at Murdoch University Veterinary Hospital.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET419, VET451, VET452, VET453, VET454, VET455, VET457, VET458 and VET463.

Concurrent enrolment or completion of VET538, VET585, VET586, VET587 and VET590.

**Advanced Topics in Small Animal Practice (VET652)**

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in the discipline of small animal practice. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students may be required to participate in learning activities off-campus.

**Advanced Topics in Veterinary Science (VET546)**

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in an area of veterinary science outside that of general clinical practice. Students have the opportunity to extend their theoretical knowledge and develop advanced specific skills and professional competence. Part or all of this unit may involve an externship with an approved agency.

Approximately 40 hours per week.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET419, VET451, VET452, VET453, VET454, VET455, VET457, VET458 and VET463.

Concurrent enrolment or completion of VET538, VET585, VET586, VET587 and VET590.

**Advanced Topics in Veterinary Science (VET646)**

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in an area of veterinary science outside that of general clinical practice. Students have the opportunity to extend their theoretical knowledge and develop advanced specific skills and professional competence. Part or all of this unit may involve an externship with an approved agency.

**Advanced Topics in Wildlife, Zoological and Conservation Medicine (VET545)**

Credit Points: 6

MURDOCH: S2V-internal

This 12 week full-time unit allows students to undertake focused study in wildlife, zoological and conservation medicine. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. The unit provides training and expertise which can be applied in private practice, zoos and wildlife conservation projects. As part of this unit students will be required to undertake externship placements and participate in off-campus learning activities.

Approximately 40 hours per week.

Prerequisites: Enrolment in Bachelor of Veterinary Medicine and Surgery.

Completion of VET457, VET463, VET454, VET453, VET458, VET452, VET455, VET419 and VET451.

Concurrent enrolment or completion of VET585, VET586, VET587, VET590 and VET538.

This unit requires that students undertake full-time clinical externship placements for twelve weeks. Each student will undertake four weeks of structured clinical group training at the

College of Veterinary Medicine Teaching Facility at Perth Zoo.

Students will then undertake the remaining eight weeks as local, inter-state or international externship placements. Students are able to select up to four weeks of elective placements from other Stream units offered by the College of Veterinary Medicine. All externship placements must be approved by staff in the Conservation Medicine Program.

**Advanced Topics in Wildlife, Zoological and Conservation Medicine (VET645)**

Credit Points: 9

Not available this year

This 12 week full-time unit allows students to undertake focused study in veterinary aspects of wildlife, zoological or conservation medicine. Students will have the opportunity to extend their theoretical knowledge and develop practical skills and professional competence beyond the minimum standards required for graduation and registration. As part of this unit students will be required to participate in learning activities off campus.

**Advanced Veterinary Case Management (VET675)**

Credit Points: 3

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

This unit provides case exposure and advanced, directly-supervised training in discipline-relevant case management, as defined by the relevant College or Chapter of the Specialty Board. 'Case exposure' is defined as discipline-relevant material that might include animals referred to MUVH for clinical management (diagnosis and treatment), necropsies, histopathology, examinations, or laboratory case data. Students do not have to be enrolled in Specialty Board training in order to take this unit. Assessment includes completion of a comprehensive case log.

Contact time will vary according to discipline.

Prerequisites: Enrolment in the Master of Veterinary Clinical Studies.

**Advanced Veterinary Case Management (VET675-1)****As for VET675 except:**

Credit Points: 6

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

Approximately 300 hours.

**Advanced Veterinary Case Management (VET675-2)****As for VET675 except:**

Credit Points: 9

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

Approximately 450 hours.

**Advanced Veterinary Case Management 2 (VET676)**

Credit Points: 3

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

This unit provides further case exposure and advanced, directly-supervised training in speciality-relevant veterinary case management. 'Case exposure' is defined as speciality-relevant material that might include animals referred to MUVH for clinical management (diagnosis and treatment), necropsies and histopathology examinations, or laboratory case data. Assessment includes completion of a comprehensive case log.

Contact time will vary according to speciality.

Prerequisites: Enrolment in the Master of Veterinary Clinical Studies.

### **Advanced Veterinary Case Management 2 (VET6761)**

*As for VET676 except:*

Credit Points: 6

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

### **Advanced Veterinary Case Management 2 (VET6762)**

*As for VET676 except:*

Credit Points: 9

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

### **Advanced Water Treatment Design (ENG603)**

Credit Points: 3

MURDOCH: S1-internal

In this unit students, individually and as members of a design team, develop alternative technological solutions to a real-world, multi-component, contaminated water problem and then recommend the most appropriate treatment strategy based on the integration of a combination of technical, economic, environmental, and social considerations. Each year a new real-world design problem will be selected and the unit outcome will be a remedial design and feasibility study presented in written and oral form for the resolution of the problem.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Successful completion of ENG510 Physicochemical Water Treatment Operations and ENG515 Biological Water Treatment Operations (or their equivalent with permission from the unit coordinator).

### **Advanced Web Communication Project (WEB567)**

Credit Points: 3

MURDOCH: S2-internal

This is a project-based unit with the emphasis on the development, implementation and successful completion of authentic, client based web communication projects. Students critically analyse issues drawn from social, political, business, and non-profit cases. Student teams apply principles learned in this unit and prior units to work with clients using research and strategic analysis to create solutions to web communications challenges.

Direct consultation and meetings with academic supervisor (total 24 hours contact time).

Students may have the opportunity to undertake a placement or field trip as part of this unit.

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

### **Advanced Web Design (IDD338)**

Credit Points: 3

MURDOCH: S1-internal

This unit explores advanced aspects of the design and development of websites for real world clients, such as responsive design, content management systems and project management aspects. Students participate in group-based design, production and project management methods toward the successful completion of a project.

Online lecture; media laboratories: 2.5 hours per week

Prerequisites: WEB263/MCC263 Web Design

Exclusions: Students who have successfully completed MCC338

Multimedia Client Project may not enrol in this unit for credit.

### **Advanced Web Programming (ICT375)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This is an advanced unit in Internet and Web technologies, intended to develop technical understanding and practical experience in web application development.

The focus of this unit is to develop skills for constructing interactive and data-driven web applications that are both efficient and scalable. Topics include scalable web applications with : Node.js, XML technologies, web services and cloud computing.

Lectures: 1 x 2 hours per week; Workshops: 1 x 2 hours per week.

Prerequisites: ICT211 Web Computing or ICT286 Web and Mobile Computing.

Exclusions: Students who have successfully completed ICT336 Internet Systems Programming may not take this unit for credit.

### **Advances in Medical Science (BMS315)**

Credit Points: 3

MURDOCH: S2-internal

This capstone unit examines the cause, pathogenesis, diagnosis, prevention and treatment of a select group of major human disorders, which may be inherited, infectious, reproductive or malignant in nature. These include HIV AIDS, sepsis, malaria, infertility, asthma, neurological diseases and cancer. Emphasis is placed on sophisticated new technologies being used in medical research and how these are impacting on our understanding and management of human disease. The unit integrates various disciplines including pathology, immunology, microbiology and molecular biology.

Lectures: 3 hours per week; workshops: 2 hours per week.

Prerequisites: BMS360/BMS314 Mechanisms of Disease/Pathological Basis of Disease or permission of the Unit Coordinator; BMS203/BMS212 Medical Microbiology and either BMS265/BIO252/BIO243 Immunology and Vaccines or BMS211 Medical Immunology and Molecular Genetics.

Exclusions: Students who have successfully completed BMS368 Advances in Medical Science may not enrol in this unit for credit.

### **Aesthetics (PHL315)**

Credit Points: 3

Not available this year

We readily talk about beauty and art in everyday life, but it is hard to say exactly what makes something beautiful or what makes it a work of art. Reflecting on the nature of beauty and the definition of art, aesthetics is one of the oldest fields of philosophical enquiry. This unit will examine philosophical questions concerning the aesthetics of art, music and architecture as well as explore the link between aesthetic and ethical values.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Agricultural and Environmental Technologies (ANS311)**

Credit Points: 3

Not available this year

This forward-looking unit will examine the increasing role in agricultural systems and for environmental monitoring of advanced

high technology methods such as sensor networks, fast crop monitoring and GIS mapping systems, data analytics, visualisation techniques, simulators, agricultural robots (drones) and models. Students will study the strengths and weaknesses of these technologies in modern precision farming and environmental practice, and be exposed to practical exercises both in the classroom and in the field.

Lectures: 2 hours per week; computer laboratories/outdoor practicals: 10 x 2 hours (weeks 2-13)

The unit is expected to include at least one 1-day practical excursion to the University Farm at Whitby Falls, Mundijong.

Prerequisites: Nil.

### **Agricultural Markets, Economics and Policy (ANS309)**

Credit Points: 3

Not available this year

This unit will consider the on and off-farm environment in which profitable farming systems must operate including agricultural policies and regulations, farm business economics, the value chain, agricultural trade systems, post harvest markets and new and emerging markets such as environmental services, carbon mitigation and water.

Lectures: 2 hours per week. tutorials: equivalent to 1 hours per week.

Prerequisites: Nil.

### **Agricultural Science and Food Production (ANS105)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces principles of agricultural science and food production systems locally, nationally and internationally. The unit describes major agricultural systems in the world and introduces students to major challenges associated with profitable and sustainable agriculture, including increased demand for agricultural products driven by population growth and changing environmental and consumer landscapes. Challenges to agricultural production and the role of new technologies will be considered, along with an introduction to global food trade and associated policies.

Lectures: 2 hours per week. Practical work, field excursions and workshops: equivalent to 2 hours per week.

Prerequisites: Nil.

### **Alternative Dispute Resolution (BSL391)**

*As for LLB391 except:*

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

Lectures/workshops: up to 2 hours per week over 12 weeks  
This teaching pattern is applicable for offerings at Murdoch South Street.

Kaplan - SGP the teaching pattern will be 4 hours per fortnight over 12 weeks

Online learning activities

Prerequisites: Successful completion of BSL165 Foundations of Business Law/Principles of Commercial Law,

Exclusions: Students who have successfully completed LAW321/LAW421/ LEG221/LEG321 Dispute Resolution or LAW367/LLB291/LEG291/LLB391/LEG391 Alternative Dispute

Resolution may not enrol in this unit for credit.

### **Alternative Dispute Resolution (LEG391)**

*As for LLB391 except:*

Credit Points: 3

MURDOCH: S2-internal, S2-external

Lecture: Two hours weekly. With the expectation of 1 week where there is an E-Learning exercise

Prerequisites: Successful completion of LEG100 Law, Justice and Social Policy or LEG150/BUS150 Australian Legal System or BUS165 Principles of Commercial Law or BSL165 Foundations of Business Law

Exclusions: Students who have successfully completed LAW321/LAW421/LEG321/LEG221/LEG391/LLB391 Dispute Resolution or LAW367/LLB291/LEG291/LLB391/BSL391 Alternative Dispute Resolution may not enrol in this unit for credit.

### **Alternative Dispute Resolution (LLB391)**

Credit Points: 3

MURDOCH: T1-internal

This unit will explore the variety of methods that may be adopted to resolve conflicts other than by way of binding third party intervention, including negotiation, conciliation, mediation, arbitration and blended processes.

24 hours taught intensively over 1 week in the summer break (approx. 5hrs per day)

Prerequisites: Successful completion of all part 1 LLB units

Exclusions: Students who have successfully completed LAW321/LAW421/LEG321/LEG221/LEG391/LLB391 Dispute Resolution or LLB291/LEG291/LEG391/BSL391 Alternative Dispute Resolution may not enrol in this unit for credit.

### **Ancient Greek Ideas (PHL316)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines the origin and development of philosophical ideas at the beginning of the Western tradition. Students will read and discuss major works by the Presocratics, Plato, Aristotle, the Stoics and Neoplatonists on such themes as the origin of the cosmos, the place of the gods, atoms and elements, souls and bodies, theory of knowledge, and theory of value.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Internal students complete two 45-minute quizzes, one in mid-term, one at end of term; external students complete a final exam.

Prerequisites: Nil.

### **Animal Behaviour and Welfare (VET333)**

Credit Points: 3

MURDOCH: S1-internal

An understanding of the basic concepts of animal behaviour and welfare of domestic animals is the foundation of building veterinary clinical skills. In this unit, students will explore the ethical challenges of human-animal interactions and veterinary practice which is paramount for progression towards competency in professional skills. Practical classes include the introduction to physical examination of some species, and group activities in animal behaviour. Tutorials develop veterinary communication skills in investigating animal ethics and welfare issues from a veterinary perspective.



Lectures: 3 x 1 hours per week; Practicals/tutorials: 1 x 3 hours per week; Animal Behaviour Workshop: 2 x 3 hours per semester.

Off campus animal behaviour field visit (one half day)

Prerequisites: Nil.

### **Animal Industry Experience (ANS337)**

Credit Points: 3

MURDOCH: S2-internal

This unit is the capstone unit for the Animal Science major and consolidates all previously taught material across a broad range of production systems. Knowledge of a systems based approach to managing, evaluating and improving a productive, profitable and efficient operation is essential. These aspects will be drawn together in this unit through production system economics, extension of research, genetic systems, marketing and animal production technologies. The practical farm experience and industry tour will also be finalised in this unit.

Lectures: 3 per week for 12 weeks; practicals/workshops/computer laboratories - 3 hours per week for 12 weeks.

Practical experience - 8 weeks over 3 years of B.Sc. degree  
Industry tour - 1 week during non-teaching break

Prerequisites: Enrolment in Bachelor of Science majoring in Animal Science or Animal Health; ANS101 Animal Production Systems 1; ANS230 Animal Production Systems 2; ANS333 Animal Production Systems 3.

Exclusions: Students who have successfully completed ANS357 Animal Industry Experience may not enrol in this unit for credit.

Student Industry Tour will require an extra-curricular fee from each student of \$250.00.

### **Animal Production Systems II (ANS230)**

Credit Points: 3

MURDOCH: S1-internal

This unit will develop knowledge of the theory and practice of animal production systems. Animal production from pasture systems will be emphasised, and the associated role of soils. Modules covered in this unit are soil fertility, pastures and fertilisers, beef, pork and poultry production systems. The information delivered in this unit provides a robust, practical and systems-based understanding of the livestock industries. Practical classes will utilise the Murdoch Farm, other properties and industry organisations to develop industry recognised skills.

Lectures: 3 x 1 hour per week; pPractical classes/workshops/computer labs: 3 hours per week

Field trips to stud cattle properties, the Murdoch University farms and other industry visits.

Prerequisites: ANS101 Introduction to Livestock Science

Exclusions: Students who have successfully completed ANS250 Animal Production Systems II may not enrol in this unit for credit.

### **Animal Production Systems III (ANS333)**

Credit Points: 3

MURDOCH: S1-internal

This unit develops knowledge of the theory and practice of sheep meat, wool and dairy production systems. Practical classes will develop industry-recognised skills in animal management and include field trips and guest presenters from these animal industries. A large part of the unit is built around an assignment on feedlotting lambs. The students will be involved in all aspects of the feedlot to develop practical knowledge and skills in animal

handling, health, welfare, nutrition, genetics and production.

Lectures: 3 hours per week for 12 weeks; practicals 3 hours per week for 12 weeks.

Assistance with maintenance of feedlot over a 6-week period: 10 hours.

Prerequisites: Enrolment in Animal Science major; ANS101 Animal Production Systems I/Introduction to Livestock Science, ANS250/230 Animal Production Systems II.

Exclusions: Students who have successfully completed ANS353 Animal Production Systems III may not enrol in this unit for credit.

### **Animal Speciation, Radiation, Evolution (BIO244)**

Credit Points: 3

MURDOCH: S2-internal

This unit covers the systematics and morphology of the major groups of invertebrates and vertebrates, with emphasis on major evolutionary trends. How recent fossil finds and the development of molecular techniques are increasing our knowledge of the history of animal life and at times challenging traditional hypotheses will be explored. Students are expected to develop practical skills in using dichotomous keys, biological drawing and microscopy as well as acquiring a good theoretical background.

Lectures: 3 hours per week; laboratories: 3 hours weekly for 9 weeks.

Prerequisites: BIO103 Introduction to Environmental Biology/Environmental Biology or BIO180 Introduction to Marine Biology

Exclusions: Students who have successfully completed BIO261/BIO244 Animal Diversity may not enrol in this unit for credit.

### **Animal Structure and Function (ANS221)**

Credit Points: 3

MURDOCH: S2-internal

This unit integrates the anatomy and physiology of farm animals, in particular cattle, sheep, pigs and horses. It covers the major organ systems; emphasising the functional anatomy and physiology of the musculoskeletal, digestive, and reproductive systems. The nervous and endocrine control of body functions will be examined. Practical exercises will utilise prepared anatomical specimens and fresh material to complement dissections of areas of interest in domestic stock.

Lectures: 3 hours per week; practicals/workshops; up to 3 hours per week.

Prerequisites: Enrolment in Animal Science major or Animal Health major; BMS107 Foundations of Vertebrate Form and Function and BIO152 Cell Biology/ Foundations of Cell Biology Biology

### **Animation (GAD241)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides students with a solid basis in the theory and practice of 3D animation. It covers the historical, theoretical and practical aspects of animation with an aim of arming students with all the knowledge and skills needed to start creating thoughtful and engaging 3D animated works.

Online lectures; media laboratories: 3 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC241

Animation may not enrol in this unit.

### **Anthropology and Its Others (AST612)**

Credit Points: 3

MURDOCH: S1-external

This unit is a history of ideas in anthropology and of the contribution of anthropology to the understanding of social and cultural difference. Anthropology's 'Others' include the other cultures that are the subject of its studies and the other disciplines with which anthropological ideas are engaged. Major debates in social, cultural and evolutionary anthropology, and the contributions of cultural-ecology, marxist, symbolic, structural and post-modern approaches to cultural analysis are surveyed. Ethnographic and documentary films provide important case studies for interpretation.

2 hours online lectures; 1 hour film; online discussion forum.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) course.

If not enrolled in a graduate-level (AQF level 8 or AQF level 9) course, then permission of the Unit Coordinator is required.

### **Anthropology, Society and Culture (AST312)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Understanding cultural difference is at the heart of anthropology, and has great significance for the other Humanities and Social Sciences. This unit is concerned with the other cultures that have been the subject of anthropological studies and the other disciplines with which anthropological ideas are engaged. Major debates in social and cultural anthropology, and the contributions of cultural-ecology, Marxist, symbolic, structural and post-modern approaches to cultural analysis are covered. Ethnographic films and documentaries are an important component of the unit.

Lectures: 2 x 45 minutes per week (on-line); Workshop/Film: 1 x 3 hours per week;

Prerequisites: Nil.

### **Apologetics (THE614)**

Credit Points: 3

Not available this year

This unit introduces students to Christian responses to secular modernity and modern atheism. It will explore the origins and nature of secular society and atheism as well as Christian responses to it. Students are encouraged to engage critically with their own tradition and with the secular environment.

Seminars: 2 hours per week

Prerequisites: THE505 Thinking Theology; THE510 Emerging Christian Theology - The Creeds (100-500CE); THE507 Introduction to the New Testament; THE506 Introduction to the Old Testament.

### **Applications of Nanotechnology (PEN261)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines key fundamentals of nanoscale matter and nanomaterials properties and performance. Nanocharacterisation techniques and the most prominent nanotools (AFM/STM) that underpin the nanotechnology revolution are also covered. The essay component of this course definitely allows any student from both domestic and international shores to explore the successful

development of this advanced field and its translation into a range of applications of special interest to the student and explores the impact of nanotechnology in our community.

Lectures: 3 x 2 hours per week; tutorials/workshops: 1 x 2 hours per week.

Prerequisites: PEN152/PEC152 Principles of Physics and MAS161 Calculus and Matrix Algebra.

Students who have completed previous physics not listed in the prerequisites above should consult the Academic Chair for clarification of their enrolment.

### **Applied and Professional Ethics (PHL210)**

Credit Points: 3

Not available this year

This unit introduces students to philosophical ethics and ethical reasoning by focusing on pressing moral problems in the public, professional and global spheres. Topics covered include: war, terrorism and torture; immigration; legal punishment; prostitution and pornography; whistleblowing and corruption. The unit focuses on the development of practical skills in ethical judgement, in a world where values are contested and changing.

Lectures: 1 hour per week; tutorials: 1.5 hours per week

Prerequisites: Nil.

### **Applied Animal Agriculture (ANS363)**

Credit Points: 3

MURDOCH: Y-internal

This unit enables students to increase their knowledge and expertise in various specialisations in applied animal agriculture. This unit helps prepare students for their chosen career paths by bringing them up to date with current scientific knowledge and issues, with respect to applied animal agriculture, and enables development of rational arguments on current industry topics. Teaching will be in the form of student-centred learning modules. Details about modules can be obtained from the Unit Coordinator prior to enrolment.

No scheduled (timetabled) attendance required, however, on-campus assessments (viva voce) will need to be arranged with the coordinator on completion of a module, along with tutorial sessions for students needing extra help.

Prerequisites: Enrolment in the Bachelor of Science (Animal Science or Animal Health major) or permission of the Academic Chair.

Exclusions: Students who have successfully completed ANS359 Applied Animal Agriculture may not enrol in this unit for credit.

### **Applied Animal Breeding (ANS364)**

Credit Points: 3

MURDOCH: Y-internal

This unit enables students to increase their knowledge and expertise in various specialisations in applied animal breeding. It helps prepare students for their chosen career paths by bringing them up to date with current scientific knowledge and issues, with respect to applied animal breeding, and to be able to develop rational arguments on current topics in the industry. Teaching will be in the form of student-centred learning modules. Details about modules can be obtained from the Unit Coordinator prior to enrolment.

No scheduled (timetabled) attendance required, however, on-campus assessments (viva voce) will need to be arranged with the coordinator on completion of a module, along with tutorial sessions for students needing extra help.

Prerequisites: Enrolment in the Bachelor of Science (Animal Science or Animal Health major) or permission of the Academic Chair.

Exclusions: Students who have successfully completed ANS3591 Applied Animal Breeding may not enrol in this unit for credit.

### **Applied Health Research Methods: From Research to Practice (SHP632)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
MANDURAH: S2-external

This unit examines the qualitative and quantitative health research methods available to the researcher seeking to answer health-related questions and recommend changes to improve/support practice. Students will critique research examples in order to evaluate the various methodological approaches and their relative strengths and limitations. Focus will be on the efficacy of evidence-based research for health care and the forces that facilitate or limit its application. Students will develop a research proposal to answer a defined research question.

Internal: Please see Semester timetable.  
External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR632 Applied Health Research Methods: From Research to Practice may not enrol in this unit for credit. Students who have completed an equivalent research methods unit must contact the Academic Chair for a replacement unit.

### **Applied Health Services Project (SHP603)**

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students will undertake a project in the area of either health management, quality, risk, clinical or corporate governance. This may be either conducted in a health industry placement under the supervision of the lecturer and nominated preceptor or undertaken as a research project in a relevant coursework area that the student has selected. Project findings will be reported in either a journal article format or industry report and be presented to either peers and/or members of the host organisation.

The health industry placement students will negotiate a placement in consultation with the lecturer. The placement will be conducted over an equivalent of 2 days per week for the 14 weeks of the semester.

Prerequisites: SHP632 Applied Health Research Methods: From Research to Practice or equivalent research methodology unit. Enrolment in the Master of Health Management, Quality and Leadership, Master of Health Care Management or by permission of the Academic Chair.

Exclusions: Students who have successfully completed NUR640 Health Services Project or NUR648 Internship may not enrol in this unit for credit.

### **Applied Information Security Management (ICT502)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Information security managers design, build and manage enterprise information security. This unit focuses on enabling students to use the tools of threat and vulnerability assessment, security policy and procedure, and strategic decision making for information security management. Students work in teams within a realistic enterprise environment to develop enterprise security policy to deal with

challenges to Information Security.

Workshops: 1 x 3 hours per week.

Students complete a major group project cumulatively over the course of semester.

Prerequisites: Enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT557 Information Security Management may not enrol in this unit for credit.

### **Applied Mathematics (MAS182)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit provides an introduction to differential and integral calculus, and basic ordinary differential equations. The concepts and techniques will be motivated and illustrated using mathematical models in engineering, the physical and biological sciences, commerce, economics and the social sciences. Other topics include complex numbers and their applications.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS164 Fundamentals of Mathematics OR at least a pass in the Year 11 course Introduction to Calculus together with a final scaled score of 55% or more in TEE Applicable Mathematics OR a final scaled score of 55% or higher in ATAR Mathematics Methods or WACE Mathematics (3C/3D)

Exclusions: Students who have successfully completed a calculus unit of the level of MAS161 Calculus and Matrix Algebra or higher may not enrol in this unit for credit. Students may not enrol in this unit and either MAS161 Calculus and Matrix Algebra or MAS164 Fundamentals of Mathematics concurrently.

### **Applied Photovoltaics (ENG337)**

Credit Points: 3

MURDOCH: S2-internal

This unit is concerned with photovoltaic technology and its wide variety of applications. It covers the properties of sunlight, the terminal characteristics of solar cells, modules and arrays, relevant standards and design principles for photovoltaic systems, the relevance and role of balance of system components (BOS) and the suitability of photovoltaics for a range of applications. Laboratory and outdoor experiments working with and using photovoltaic devices and modules form an important part of this unit.

Lecture/Workshop: 1 x 3 hours per week for 12 weeks.  
Laboratory: 1 x 3 hours per week.

Prerequisites: Completion of second year engineering; ENG297 Circuits and Systems II; ENG207 Principles of Electronic Instrumentation.

### **Applied Psychology Dissertation (PSY600)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

A substantial research investigation into an aspect of applied psychology reported as a relevant review of literature and journal article. Full-time enrolment should be continuous and last no longer than 2 years. If it is determined there has been inadequate progress, a warning may be sent. Where a dissertation is not completed within the period, the student may be required to complete by a given date or, where a written warning has previously been issued, be excluded from the course.

Dissertation: approximately 9 hours per week for 37 weeks.

Prerequisites: Enrolment in MAppPsych (Clinical or Organisational).

Students commencing enrolment in the Applied Psychology Dissertation may not enrol in PSY600 and must enrol in PSY690 in conjunction with PSY655.

### Applied Psychology Dissertation (PSY690)

Credit Points: 10

MURDOCH: S1-internal, S2-internal, Y-internal

A substantial research investigation into some aspect of psychology reported as a relevant review of literature and a 'journal article'.

Dissertation: approximately 9 hours per week for 37 weeks.

Prerequisites: Enrolment in MAppPsych (Clinical or Organisational); completion of, or concurrent enrolment in, PSY655 Psychology: Advanced Research Methods.

Enrolment should be continuous and last no longer than two years. If the Academic Chair determines inadequate progress, a warning may be sent. Where a dissertation is not completed within the period, the student may be required to complete by a given date (or be excluded) or, where a written warning has previously been issued, be excluded from the course.

### Applied Research Skills in ICT (BSC301)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides students with further experience in the approaches used in the practice of research in information and communications technology. Students undertake group research projects on areas related to their major and also gain project management experience in ensuring that the project is successfully completed. The unit is intended to deepen students' understanding of fundamental conceptual, methodological and implementation issues in ICT research. Presentation and communication of scientific results are also emphasised.

Lectures: 1 hour per week.

Supervisor Meeting: 1 hour per week.

Prerequisites: BSC203 Introduction to ICT Research Methods and enrolment in one of the following Information Technology majors: Computer Science or Business Information Systems or Cyber Forensics and Information Security or Games Software Design and Production, or Games Technology or Internetworking and Network Security or Mobile and Web Application Development.

### Applied Statistics (MAS223)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit considers select topics from experimental design and survey methods, descriptive statistics, hypothesis testing and modelling for continuous and categorical variables. Throughout, advanced statistical software will play an important role in data visualisation and analysis. Students will consider topics through the presentation of real research problems from a number of disciplines, gaining valuable experience in the application of statistics in a variety of contexts.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week; workshops: 3 x 2 hour (Weeks 1-3).

Prerequisites: MAS183 Statistical Data Analysis.

### Applying Mixed Methods Research to Business (BBS301)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

In this unit, students will gain knowledge and experience in the use of qualitative and quantitative data analysis methods; and develop an appreciation of strengths and weaknesses associated with mixed and multi-method research philosophies and applications. The unit includes the development of a research project which is practice-relevant. Students will be expected to undertake data analysis and present project outcomes in order to complete their research project

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Collaborative work with other students will be beneficial for both on campus and online students.

Prerequisites: BBS200 Business Research: An Integrated Approach

### Aquaculture (BIO380)

Credit Points: 3

Not available this year

This unit provides a comprehensive introduction to aquaculture from a biological sciences perspective and will help to prepare students for a career in aquaculture. Students will gain an in-depth understanding of the diversity of types and purposes of aquaculture, of sustainable approaches to aquaculture, and of how new technologies can be used to solve some of the challenges in sustainable aquaculture. Students will develop in-depth knowledge of the operations of particular aquaculture industries by preparing detailed case studies.

Lectures: 3 hours per week for the first four teaching weeks of semester. Workshops: an average of 2 hours per week every week.

Prerequisites: BIO244 Animal Speciation, Radiation and Evolution and BIO254 Marine Botany.

### Aquatic Biosecurity (BIO606)

Credit Points: 3

Not available this year

This unit will equip students with advanced knowledge in the discipline of aquatic biosecurity essential for developing policies involving biosecurity, protection of natural ecosystems and safeguarding aquaculture food production and aquatic livelihoods. Students will gain an understanding of complex interactions between infectious and non-infectious factors that impact aquatic animal health, human activities that impact aquatic biosecurity, and develop specialised technical skills via field visits to natural ecosystems, aquaculture facilities, processing plants for aquatic products, and laboratory sessions.

This unit is taught in intensive mode consisting of:

Lectures: 12 x 1 hour; Field Trips: 2 x half day (4 hours);

Laboratories: 2 x 3 hours.

Field trips - approximately 8 hours (2 x 4h day trips, during on-campus intensive periods).

Prerequisites: Enrolment in Masters-level course.

### **Art Therapy with Children and Adolescents (CSL577)**

Credit Points: 3

Not available this year

Talk therapy alone is often inadequate when working with children and adolescents, especially with young children. Play, drawing, art, and sand play are common techniques that allow counsellors to work with children and access thoughts, feelings and experiences that are difficult for young people to understand cognitively, or to express or share verbally. This unit will provide knowledge, skills and experience using art and play therapy techniques to work therapeutically with children and adolescents individually, in groups, and in family settings.

3 hour workshop per week

Prerequisites: Enrolment in the Graduate Diploma in Creative Arts Therapies. Other students wanting to study this unit can be interviewed by the Counselling Academic Chair.

### **Asian Centuries (AST102)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is an introduction to the complex and multiple cultures of the Asian region, focusing on 'traditional' patterns and on the way these are constantly reinvented in new historical and political contexts. It examines cultural histories of Asia up to the early 1950s, exploring major turning points and highlighting such aspects as ethnicity, religion, language, art, gender, economics, and politics.

Lectures: 1.5 hours; tutorials: 1 hour.

Prerequisites: Nil.

Exclusions: Students who have successfully completed AST102 Introduction to Asian Cultures cannot enrol for credit in this unit.

### **Asian Studies Dissertation (AST634)**

Credit Points: 12

MURDOCH: H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

An original substantive investigation of a relevant Asian Studies topic under the supervision of a member of academic staff. Admission to the Dissertation option requires a) a Distinction+ average in MA coursework; b) advance approval of a dissertation proposal by the Academic Chair. Students should enrol in the Asian Studies Project in the initial instance and may transfer to the Asian Studies Dissertation after approval has been obtained.

Prerequisites: Permission of the Academic Chair.

Students cannot self-enrol in this unit.

### **Asian Studies Project (AST384)**

Credit Points: 3

MURDOCH: S1-internal, S2-external, SUM-external, U-external, W-external

This unit enables students to pursue a practicum in the Asian region and/or a research project in preparation for employment or further study through honours or postgraduate research. Projects may involve internship, practicum, and other study / professional experience in the Asian region; or a research project with an Asian focus undertaken within Australia under the supervision of a member of academic staff. Approval for enrolment in this unit must be obtained in advance from the Academic Chair.

By appointment with staff member/supervisor.

Prerequisites: Successful completion of a 200-level Asian Studies unit and permission of the Unit Coordinator.

This unit is intended to include projects that involve internship, practicum, and other study or professional experience in the Asian region; or alternatively a research project with an Asian focus undertaken within Australia. Students must obtain approval of the Academic Chair prior to enrolment.

### **Asian Studies Project (AST384)**

**As for AST384 except:**

Credit Points: 6

MURDOCH: S1-external, S2-external, SUM-external, U-external, W-external

### **Asian Studies Project (AST632)**

Credit Points: 6

MURDOCH: H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Asian Studies project requires a substantive investigation of a relevant topic under the supervision of a member of the academic staff. The project will normally have 4000 words in the 3-point option, or 8,000 words in the 6-point option, completed in accordance with University requirements.

In particular circumstances an internship or placement may be included as one of the unit components. Enrolment in the Asian Studies Project requires submission of a project proposal and approval of the Academic Chair.

By appointment with staff member.

Prerequisites: Enrolment in a graduate studies degree.

This unit may include an Internship or community project.

### **Assessment and Action Research (BED200)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit helps prospective educators become assessment literate, reflective practitioners and researchers. It includes studying a broad range of assessment techniques; judging the quality of various assessments; using assessment to support and improve learning and teaching; constructing assessments that are aligned with curriculum and appropriate for the learners present; and appropriately using the results of large scale, standardised assessments. The principles and methods of 'action research,' the iterative processes by which educators study and improve their praxis, underpin this unit.

Lectures: 1 x 1 hour per week; tutorials/workshops: 1 x 2 hour per week.

Prerequisites: Successful completion of EDN111 Language for Learning and Teaching AND BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/1011 Introduction to Teaching AND successful completion of EDN221 Learning and Teaching.

Exclusions: Students who have successfully completed E241/EDU241 Processes of Learning or E244 Educational Assessment and Evaluation or E244/EDU244 Processes of Assessment or EDU242 Learning and Assessment: Theory and Practice or EDN222 Learning, Teaching and Assessment or EDU245 Learning and Assessment Processes may not enrol in this unit for credit.

**Atmospheric Science (ENV242)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

A general unit designed to introduce the scientific study of the atmosphere and its impact on human endeavours. This unit explores meteorological phenomena with particular relevance to the Australian region and introduces satellite remote sensing, climate modelling and biosphere/atmosphere interactions. Laboratory sessions as well as computer and online activities develop generic skills appropriate to environmental research.

Lectures: 3 hours per week; practical work: 3 hours per week for the first 8 weeks of semester.

External students should note that this unit has a compulsory week-long on-campus component run in the first non-teaching week of the Murdoch semester. Due to the nature of offering this unit, students are recommended to seek confirmation of the exact attendance dates from the Academic Chair closer to the commencement date of the teaching semester.

External students should note that this unit has a compulsory week-long on-campus component run in the first non-teaching week of the Murdoch semester. Due to the nature of offering this unit, students are recommended to seek confirmation of the exact attendance dates from the Academic Chair closer to the commencement date of the teaching semester.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV213 Atmospheric Science may not enrol in this unit for credit.

**Audiences, Users and Participants (CMS203)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit provides practical knowledge about how media audiences, users and participants are analysed and understood. It begins with an historical approach to audience theory including media effects, audience reception traditions and the political and social shifts involved in the transformation of audiences as users and active participants. We explore different approaches to understanding how we experience the media, including broad social effects, individual responses and user generated content.

Lectures: 1 x 1 hour; tutorials: 1 x 1.5 hours

Prerequisites: CMS101 Introduction to Media Studies

Exclusions: Students who have successfully completed MCC236 Media Audiences and the Public cannot enrol in this unit.

**Auditing (BUS306)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

The objective of this unit is to develop a theoretical and legal background to the role and responsibilities of the auditor and the audit process. Topics: the scope and limitations of auditing; the legal background to audit responsibilities and duty of care; auditing standards; accepting and planning audit engagements; evaluating audit risk; internal control; audit evidence; audit procedures; and audit reports.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS217/BUS285 Technology and Accounting Processes.

Exclusions: Students who have successfully completed BUS312

Auditing, may not enrol in this unit for credit.

**Auditing (MBS680)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

The objective of the unit is to develop a theoretical and legal background to the role and responsibilities of the auditor and the audit process. Topics include the scope and limitations of the audit; the legal background to audit responsibilities and duty of care; auditing standards; accepting and planning audit engagements; evaluating audit risk; internal control; audit evidence; audit procedures and audit reports.

Workshops: 2.5 hour seminar per teaching week for South Street Campus

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: MBS539 Accounting for Managers or MBS533 Accounting Processes.

Exclusions: Students who have successfully completed MBS634 Auditing may not enrol in this unit for credit.

**Australian Administrative Law (LLB358)**

Credit Points: 3

MURDOCH: S1-internal

This unit reviews the current operation of administrative law in Australia at the Commonwealth and the State level. It will examine the role of courts, tribunals and other administrative review bodies in overseeing and controlling the exercise of administrative discretion and in maintaining the accountability of government. The process of statutory interpretation adopted by administrators and the courts in determining the limits of administrative power will be examined.

Lectures: 36 hours per semester (9 weeks, 2x2hrs lectures)

Workshops: up to 10 hours per semester.

Prerequisites: Successful completion of all Part 1 units in the LLB

Exclusions: Students who have successfully completed LAW258 Australian Administrative Law may not enrol in this unit for credit.

**Australian Biodiversity (BIO257)**

Credit Points: 3

MURDOCH: S2-internal

Our planet is home to approximately 8.7 million species, all of which are connected by the passage of genes along branches of the phylogenetic tree. Recording this biodiversity and understanding how it is distributed and responds to forces of environmental change is essential to its preservation. With a focus on the unique flora and fauna of Australia, this unit will introduce you to phylogenetic relationships and classification, adaptations, ecological and cultural significance, and the threats to biological diversity.

Lectures: 3 hours per week; practicals: 3 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed BIO157 Introduction to Australian Biodiversity or BIO257 Biodiversity may not enrol in this unit for credit.

**Australian Indigenous Education (EDU621)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Australian Indigenous Education is designed to provide education practitioners with the necessary background and conceptual knowledge, as well as the skills, to maximise learning outcomes for Indigenous students. Within this context the unit will also explore the requirement of the Australian Curriculum to infuse key learning areas with Indigenous perspectives so that all students learn about Aboriginal and Torres Strait Islander histories and cultures.

Lectures/seminars: 3 hours per week.

Prerequisites: Enrolment in a graduate-level qualification.

**Australian Legal System (BJU100)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

Explains the core elements of Australia's common law legal system and introduces students to the basic skills necessary to study and research in law. Topics include: reading and understanding case law and working with the doctrine of precedent; the nature, operation and interpretation of statutes; legal problem solving; alternative dispute resolution; legal practice and ethics; development of fundamental library research skills; and introduction to different forms of legal research and critical analysis of research.

Lectures: 1.5 hours per week (commencing week 1); Workshops: 1.5 hours per week (for 11 weeks, commencing week 2) .

Prerequisites: Enrolment in a Bachelor of Laws.

Exclusions: Students who have successfully completed LEG150 (prior to 2012)/LAW150 Australian Legal System may not enrol in this unit for credit.

**Australian Literature and Film (EGL235)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The unit journeys through postcolonial Australia from settlement until today, including Aboriginal culture, mythology, whaling, Wars, aging and dying. Readers will experience the ways writers, performers and filmmakers represent Australia to us. The unit explores how writers draw on history to craft their fiction. The texts are largely by contemporary Australian writers and filmmakers, drawing on History, newspapers, letters to take us back in time. The texts offer images of the rich minutiae of life that historians rarely provide us.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EGL284 Australian Literature and Film may not enrol in this unit for credit.

**Australian Migration Law (LLM502)**

Credit Points: 3

MURDOCH: UA1-internal

This unit covers the fundamentals of Australian Migration law. It is designed to equip participants with skills needed to communicate as a migration agent. Topics covered include an introduction to the Australian legal system with a focus on introducing the legislative and policy framework, the role of the courts, the context of migration regulation, researching legal materials; general concepts of migration procedure including visa application procedures and the role of migration agents and the profession.

Lectures and tutorials: taught intensively over three weeks. Due to the nature of the offering of this unit, students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Enrolment in the Graduate Certificate in Australian Migration Law and Practice.

**Australian Visa System (LLM503)**

Credit Points: 3

MURDOCH: AU10-internal

This unit examines the fundamentals of Australia's visa system including valid visa applications, decision making procedures, general requirements for visas. Students will learn to problem solve and appraise pathways and client options, determine strategies and formulate advice on various visa options.

Taught intensively over four weeks. Due to the nature of the offering of this unit, students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Enrolment in the Graduate Certificate in Australian Migration Law and Practice; completion of LLM502/LLB502 Australian Migration Law.

**Avian, Exotic Pet and Wildlife Practice (VET453)**

Credit Points: 2

MURDOCH: S1-internal

This unit covers basic principles of avian, exotic pet and native wildlife medicine. The course will cover appropriate methods of physical and chemical restraint; diagnosis and treatment of common diseases and injuries; and aspects of nutrition and husbandry associated with maintaining these types of animals in captivity.

Lectures: 24 hours; practicals: 6 hours.

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging.

This unit will involve 24 lectures and clinical training through clinical group practical sessions on avian and reptile medicine. Each student is required to participate in two 3 hour clinical practical sessions based at Kanyana Wildlife Rehabilitation Centre.

**Avian, Wildlife and Exotic Pet Medicine (VET636)**

Credit Points: 2

MURDOCH: T3-internal

This unit covers basic principles of avian, wildlife and exotic pet medicine. The course focuses on birds, reptiles, amphibians, native mammals and pocket pets (i.e. rabbits, rodents, ferrets) with regards to appropriate methods of physical and chemical restraint; diagnosis and treatment of common diseases and injuries; and aspects of nutrition and husbandry associated with maintaining these types of animals in captivity. Students will undertake two practical sessions which focus on clinical examination of birds and reptiles.

This unit will comprise 30 hours of lectures and each student will undertake six hours of practical sessions. There will be twenty timetabled practical sessions on a Monday and Tuesday afternoon in T3, and on each afternoon there will be two concurrent clinical practical sessions (avian and reptile practical sessions).

Lectures will need to be timetabled in VCS 2.008 by the College of Veterinary Medicine, however practical sessions are held off-campus and do not require timetabling at Murdoch University.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### **BA Honours Thesis in Psychology (PSY5078)**

Credit Points: 15

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal

This unit provides students with the opportunity to carry out a piece of empirical research under supervision. Students are expected to negotiate a research topic in conjunction with a supervisor. The thesis unit reporting the empirical research represents 15 of the 24 points required for the Honours year.

Approximately weekly meetings with the supervisor. This highly independent research project does not involve regular lectures or tutorials.

Prerequisites: Enrolment in Psychology Honours (BAHons) \*or\* Enrolment in Psychology Honours (BPsych(Hons))

### **Babies and Toddlers Effective Pedagogies and Toddlers Growing and Learning (EDN537)**

Credit Points: 3

MURDOCH: S1-external

This unit provides students with a socio-cultural perspective of children's growth and learning across the developmental domains. A range of key concepts and contemporary issues pertaining to early childhood pedagogy, principles and practices that support and enrich children's growth and learning birth - 3 years are investigated.

To complete Assignment 1 students will need to locate an early childhood Long Day-care Centre to undertake case studies of three children (aged birth to three years). Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Prerequisites: Enrolment in the Graduate Certificate in Early Childhood Education and Care or Master of Education (Coursework) (MEd).

Students must have two current mandatory checks on record in the Murdoch University School of Education Professional Experience Office prior to commencement of this placement: Department of Education National Police History Check and a WA Working with Children Check. Refer to the School of Education Professional Experience website for details:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience/Checks-and-clearances/>

Students must submit a Placement Form to the School of Education Professional Experience Office by the due date. A Placement Form activates the placement process and guarantees a school placement. Placement details will be available on SONIA (the School of Education placement database) at <https://myplacement.murdoch.edu.au/SoniaOnline>

### **Babies and Toddlers: Growing and Learning (EDN237)**

Credit Points: 3

Not available this year

This unit provides students with a socio-cultural perspective of children's growth and learning across the developmental domains. A range of key concepts and contemporary issues pertaining to early childhood pedagogy, principles and practices that support

and enrich children's growth and learning from birth to age two years are investigated.

Lectures: 1 hour per week; 1 workshop: 2 hours per week

To complete Assignment 1 students will need to locate an early childhood Long Day-care Centre to undertake case studies of two children (aged birth to two years). Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Students will complete five distributed days (6-7 hours per day) working with children aged 2-3 years in an Australian Long Day-care Centre.

Prerequisites: Enrolment in BEd Early Childhood and Primary (B1319) and successful completion of EDN111 and BED150 and EDN168 Nurturing Creativity in the Early Years.

### **Basic Principles of Taxation Law (LLB316)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an overview of Australia's income tax system. It examines the subject primarily from a legal perspective, but also considers the economic and social underpinnings of the system. The focus is on the taxation of the individual. The taxation of business enterprises and foreign income is examined in a related unit, 'Advanced Taxation Law'. Topics covered in this unit include: income; capital gains; fringe benefits; deductions; tax accounting; trading stock; and the professional responsibilities of a tax practitioner.

Seminar: 24 hours per semester; (2 hours per week).

Prerequisites: All Part 1 Law units; LAW260 Contract Law/LLB260 Contract Law; LAW253 Property or both LLB253 Property A and LLB254 Property B.

### **Biblical Hebrew I (REL207)**

Credit Points: 3

MURDOCH: S1-internal

An introduction to Biblical Hebrew, its vocabulary, grammar and syntax. Emphasis is placed on the reading of Hebrew, and the aim is to provide a basic understanding so that students can read with the aid of tools.

Lectures/tutorials: 2 x 2 hours per week.

Prerequisites: Nil.

### **Biblical Hebrew II (REL208)**

Credit Points: 3

MURDOCH: S2-internal

Further development of skills in reading biblical texts, including aspects of textual criticism. Representative passages will be selected.

Lectures/seminars/tutorials: 4 hours per week (2 x 2 hour workshops).

Prerequisites: THE101 Biblical Hebrew I or REL207 Biblical Hebrew I.

Exclusions: Students who have successfully completed THE201 Biblical Hebrew II cannot enrol in this unit for credit.



**Big Ideas (KAC001)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is about introducing students to a range of thought-provoking and stimulating ideas that shape, or have shaped, the world in which we live. It is through the exploration of this content that students develop strategies and techniques to help them succeed at university studies.

Lectures/workshops: 2 hour per week; workshops: 2 hours per week.

Prerequisites: Enrolment in the K-Track course.

**Biochemistry (BIO247)**

Credit Points: 3

MURDOCH: S2-internal

How do organisms generate energy? How do they make the building blocks for new cells? These questions are at the heart of biochemistry and will be explored in this unit across a wide range of organisms. The basic structure of cells and the mechanisms by which they function will be examined, followed by a detailed study of the key pathways of energy generation and biosynthesis. The laboratory and workshop components will also develop core skills in biochemical analysis.

Lectures: 3 hours per week, laboratories: 5 x 3 hours; workshops: 5 x 2 hours.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

Exclusions: Students who have successfully completed BMS261 Human and Comparative Biochemistry or BIO270/BIO247 Biochemistry I may not enrol in this unit for credit.

**BioEnergy and Resource Recovery (ENG342)**

Credit Points: 3

MURDOCH: S2-internal, S2-external (closed)

This unit introduces the student to the principles of mass and energy flow in natural and engineered ecosystems (e.g. aqueous environments, urban spaces, agriculture, industry). Sustainability and reasons for waste accumulation in both systems are contrasted. Circular flows (recycling) and steady-state equilibria are investigated as possible drivers of sustainable processes. Key environmental technologies that turn wastes to resources (e.g. waste to energy, bio-conversion, water recycling, nutrient recovery etc.) or limit pollution will be covered in detail and implementation options debated.

Lectures: 1 hour per week; laboratories/computer laboratories: 1 x 3 hours per week.

Prerequisites: CHE144 Foundations of Chemistry.

**Bioethics and Law for Health Care Leadership (SHP510)**

Credit Points: 3

MURDOCH: S1-external, S2-external

This unit will prepare you to take a leadership role in the workplace that allows collaboration in ethical decision-making. The focus is on recognising actual and potential ethico-legal dilemmas in professional practice, and how decisions are made, justified and reviewed. A conceptual framework will be used to explore the decision making process while examining actual and perceived roles, professional values, and communication and collaboration practices when decisions with an ethical and/or legal dimension have to be made.

External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR610 Bioethics and Law for Health Care Leadership may not enrol in this unit for credit.

**Biological Water Treatment Operations (ENG515)**

Credit Points: 3

MURDOCH: S2-internal

Provides a quantitative and detailed high-level entry into the science and engineering principles of modern biological water treatment processes. These processes are the basis of municipal wastewater (sewage) treatment, but also are often found in industrial, concentrated livestock, protected agriculture, food processing, and on-site sanitation operations. Students design and construct laboratory bioreactors with live bacteria for the processing of water, renewable energy, and bioremediation reactions, under the tutelage of experts that work with the technologies on a regular basis.

Lectures: 2 hours per week; laboratory workshop: 1 week (to provide real world component to modelling exercises).

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

**Biomechanics I (EXS204)**

Credit Points: 3

MURDOCH: S2-internal

This unit teaches students principles of biomechanics and their application to human movement from both a theoretical and practical perspective. Examples are drawn from both the clinical and sporting realms.

Lectures: 3 hours; Laboratory: 1 hour

Prerequisites: CHI124/EXS124 Principles of Sports Science (or CHI109 Chiropractic Skills and Principles I pre 2015)

Exclusions: Students who have successfully completed EXS209/EXS2091 Biomechanics or CHI209/CHI2091 Biomechanics and Diagnostic Palpation Skills may not enrol in this unit for credit.

**Biomechanics II (EXS304)**

Credit Points: 3

MURDOCH: S2-internal

This unit will develop students understanding of biomechanics and its application within both sport and clinical settings. It will focus on neuromuscular biomechanics and advanced biomechanical assessment techniques.

Lectures: 2 hours; Practicals: 2 hours

Prerequisites: EXS204 Biomechanics 1

**Biomedical Instrumentation (ENG371)**

Credit Points: 4

Not available this year

This unit builds upon the prerequisites of DC/AC circuits and electronics, anatomy and physiology, control and dynamics to understand and develop a working knowledge of the principles and operations of the types of sensors and instrumentation associated with making biomedically oriented measurements used in diagnostic, intensive care and normal monitoring of patients.

No formal contact hours but by arrangements with the Unit Coordinator.

Prerequisites: ENG262/ENG207 Principles of Electronic Instrumentation; ENG243/ENG297 Circuits and Systems II; BMS264 Biomedical Physiology.

### Biomedical Physiology (BMS206)

Credit Points: 3

MURDOCH: S1-internal

This unit will cover the functioning of the individual organs and tissues of the human body, including nervous, muscular, cardiovascular, respiratory, renal and alimentary systems. The mechanism of action will be considered in terms of the cellular and tissue structure and the physical processes necessary to maintain a healthy body. Control mechanisms will be outlined. Practical exercises will utilise computer simulations and human subjects.

Lectures: 3 x 1 hour per week; practicals: 1 x 4 hours per week; tutorials: 1 x 1 hour per week (optional).

Prerequisites: BMS107 Foundations of Vertebrate Form and Function

Exclusions: Students who have successfully completed BMS264 Biomedical Physiology may not enrol in this unit for credit.

### Biomedical Signal Processing (ENG372)

Credit Points: 4

Not available this year

This unit builds upon the prerequisite electronics, mathematics, control and dynamics to provide a solid foundation in signal processing. Some of the areas covered will include Fourier analysis, digital signal processing and filtering. This unit will provide a solid mathematical background and places a strong emphasis on computer based analysis tools and hardware requirements.

No formal contact hours but by arrangements with Unit Coordinator.

Prerequisites: ENG243 Circuits and Systems II; ENG267 Control Systems and Process Dynamics; ENG109 Computing for Scientists and Engineers; MAS208 Mathematical Modelling.

### Biomedical Systems Engineering (ENG373)

Credit Points: 4

Not available this year

Looks at a variety of human anatomical and physiological systems from an engineering perspective. In particular, the application of system analysis and modelling to develop, understand and have a working knowledge of mathematical and computer-based models which encapsulate the dynamic and steady state aspects of a variety of important biomedical systems. Includes musculoskeletal, cardiovascular, temperature regulatory, neural and sensory systems. Relies and builds heavily upon the prerequisites of biomedical instrumentation, biomedical signal processing, mathematical modelling, control and dynamics.

No formal contact time but by arrangements with the Unit Coordinator.

Prerequisites: ENG371 Biomedical Instrumentation; ENG372 Biomedical Signal Processing ; MAS208 Mathematical Modelling; ENG267 Control Systems and Process Dynamics; BMS264 Biomedical Physiology.

### Biosecurity Masters Research Dissertation (BIO629)

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Students undertake an advanced, supervised investigation of a biosecurity research problem related to their main area of interest. The project will report on the rationale, methods and results of the research and will be assessed on the basis of the quality of a submitted dissertation. Project topics, applied in nature, will be chosen in consultation with the Unit Coordinator and the supervisor. The dissertation will be assessed by two staff members or other appropriately qualified people as approved by the Academic Chair.

Discussions with supervisor(s) as required. This is an independent research project and is therefore unique for each student.

Completing the Masters project will require critical thinking and good time management. Full time enrolment (completion in one semester) is equivalent to 40 hours of study per week.

Prerequisites: Enrolment in the Master of Plant Biosecurity or Master of Biosecurity.

Students must have completed and passed all other units that comprise the Masters, prior to enrolling in this unit.

### Biosecurity Plant Pests - Invertebrates (University of Queensland) (OTH541)

Credit Points: 3

MURDOCH: S1-external

Investigates invertebrate plant pests, their identification and classification, life-cycle and their host relationships from a biosecurity perspective. The unit concentrates on insects but also covers nematodes, snails and mites. Because of the complexity of invertebrate life-cycles, a biological understanding is essential for appropriate border inspection and post-border surveillance. Basic management approaches dealing with invertebrate plant pest incursions are discussed. This unit is offered by the University of Queensland. Please refer to the UQ Handbook: <http://www.uq.edu.au/study/>

Prerequisites: Enrolment in the Graduate Certificate in Plant Biosecurity, Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity.

### Biosecurity Plant Pests - Pathogens (La Trobe University BOT5BPP) (OTH542)

Credit Points: 3

MURDOCH: S1-external

Major plant pathogens of concern to biosecurity will be introduced. Classification and methods for diagnosing pathogens will be discussed in the context of: host symptoms; detection methods; pathogen life cycles. Environmental influences on the relationship between host and pathogen will be covered. Options and limitations for prevention, eradication and control of pathogen invasions are discussed. This unit is offered by La Trobe University. Please refer to the LTU Handbook: <http://www.latrobe.edu.au/handbook/2015/index.htm>

The fully flexible workload, self-paced is approximately 10 hours per week on average over the semester. No specific timetabled activities, other than assessments due before end of semester.

Prerequisites: Enrolment in the Graduate Certificate in Plant Biosecurity, Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity.

### **Biosecurity Plant Pests - Weeds (University of Adelaide PLANT SC 7023EX) (OTH543)**

Credit Points: 3

MURDOCH: S1-external

This unit is offered by the University of Adelaide. Please refer to the University of Adelaide Handbook:

<http://www.adelaide.edu.au/calendar/>

This unit will consider: Weed ecology, and the invasion biology of plant species. The biology, ecology of weeds, including 'sleeper weeds'. Weed surveillance strategies. Weed identification. Weed eradication and containment. Successful and unsuccessful weed eradication programs. Weed management principles and weed control strategies in relation to eradication and containment of invasive weeds. The unit will be delivered in external mode.

This unit is delivered online.

Prerequisites: Enrolment in the Graduate Certificate in Plant Biosecurity, Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity.

### **Biosecurity Policy Framework Obligations (BIO539)**

Credit Points: 3

MURDOCH: S2-external

All domestic and international trade is regulated and compliance with regulations forms the day-to-day activities of a plant biosecurity professional. For most countries the overarching regulatory framework is the International Plant Protection Convention (IPPC). This agreement impacts international trade and also domestic trade arrangements and quarantine. This unit provides an in-depth knowledge of the regulatory framework under which plant biosecurity professionals operate, and how that framework impacts all aspects of plant biosecurity, be it international or domestic.

This unit is delivered online.

Prerequisites: Enrolment in the Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity. Students enrolled in G1047 Graduate Diploma in Plant Biosecurity or M1172 Master of Plant Biosecurity must have completed BIO538 Plant Biosecurity in Practice or have permission from the Academic Chair and Unit Coordinator, to enrol in this unit.

### **Biostatistical Methods (MAS224)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Biostatistics is concerned with the collection, summarisation, analysis and interpretation of data arising in the life and health sciences. This unit builds on introductory statistical work, emphasising practical methods relevant to biological and health applications. These include design and analysis of simple experiments and clinical trials, assessment of risk factors, analysis of categorical data and a brief introduction to survival analysis. Practical aspects are enhanced via regular workshop analyses and a small project.

Lectures: 2 x 1 hour per week; workshops: 1 x 2 hours per week.

Prerequisites: MAS180 Introduction to Statistics or MAS183 Statistical Data Analysis.

Exclusions: Students who have successfully completed MAS230 Biostatistical Methods cannot enrol in this unit for credit.

### **Bloodstain Pattern Analysis (BIO692)**

Credit Points: 3

MURDOCH: S1-internal

The unit provides instruction on the principles required to interpret bloodstain patterns at crime scenes. Students will gain experience in the techniques associated with bloodstain characterisation (SWGstain) through classroom and practical exercises. WA Police BPA experts will play a significant role in the teaching programme and in presenting casework examples. Student BPA skills will be applied to a capstone WA Police mock BPA crime scene. Students will also be taught BPA reporting and presentation of expert opinion testimony in Court.

Lecture/workshops: 25 hours over a 13 week period; Practical sessions: 20 hours over a 12 week period; 1 x field trip (mock BPA crime scene): 8hrs; Exam preparation: 5hrs

Prerequisites: Enrolment in the Master in Forensic Science (Professional Practice).

### **Bodies of Evidence (BIO315)**

Credit Points: 3

MURDOCH: S2-internal

This capstone unit integrates information derived from earlier forensic units by focusing on the investigation of homicide. It discusses and integrates evidence derived from five key modules: forensic pathology; forensic anthropology; forensic botany; forensic entomology and crime scene investigation and applies the knowledge to the investigation of a murder case. Students are required to generate expert testimony reports and to present evidence from the case in a moot court. Protocols for the collection and presentation of evidence are emphasised.

Lectures/Workshops: 40 hours over 9 teaching weeks plus 20 hours in an intensive Forensic Pathology module in the first non-teaching week; Laboratories 12 hours over 10 weeks. Timetabled Tests: 3 hours over 10 weeks. Total formal contact per student is 75 hours over 10 weeks

Prerequisites: PEC103/CHE103 Introduction to Forensic Science; BIO282 Molecular Biology.

Exclusions: Students who have successfully completed BIO215 Bodies of Evidence may not enrol in this unit for credit.

### **Bovine Health and Management (VET632)**

Credit Points: 4

MURDOCH: T1-internal

The main objective of this unit is to advance the student's knowledge of health oriented bovine production management, at the individual and herd-level context. The unit teaching is focused on the practice of bovine herd health management, including: animal husbandry, internal medicine, surgery, obstetrics and reproductive management, as they relate to the epidemiology, pathogenesis, diagnosis, therapy, prevention, and control of diseases directly or indirectly affecting cattle and the maintenance of healthy productive cattle herds.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### **BPsych Practical Skills (PSY444)**

Credit Points: 4

MURDOCH: S2-internal

This unit facilitates the learning of skills related to psychological practice. The unit is designed to enable students to develop skills that will assist them applying their undergraduate knowledge to

7

stakeholder needs.

Seminar: 3 hour seminars for 7 weeks of the semester.

Introductory seminar session delivered via LMS, prior to the on-campus seminars conducted during the semester.

Prerequisites: BSC302 Advanced Quantitative Research Methods; or PSY311 Psychology: Advanced Quantitative Research Methods; or PSY315 Psychology: Advanced Qualitative Research Methods; OR enrolment in Graduate Diploma in Psychology (GradDipPsych)

### **Brand and Identity Design (IDD202)**

Credit Points: 3

MURDOCH: S1-internal

This unit explores the construction of identity and brand in the context of specific markets and how this identity is then communicated through visual design strategies. Students will be introduced to contemporary branding, logo design, identity systems and how they are applied to a range of print and digital contexts.

Online lecture; media laboratories: 2.5 hours per week.

Prerequisites: IDD118 Introduction to Graphic Design

### **Britain and the Reformation Era (THE623)**

Credit Points: 3

Not available this year

The European Reformations of the sixteenth century were fundamental influences on the shaping of modern Western Christianity. This unit will examine ways in which the British denominations, both Protestant and Roman Catholic, arose or were reshaped by that period of their history. The unit will also explore ways in which British Christianity was influenced by continental religious developments, as well as by political and cultural developments in the period.

Lecture: 1 hour per week; Seminar 1 hour per week.

Prerequisites: THE509 Turning Points in Church History

### **BSc Honours Thesis in Psychology (PSY5099)**

Credit Points: 15

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, W-internal, Y-internal

This unit provides students with the opportunity to carry out a piece of empirical research under supervision. Students are expected to negotiate a research topic in conjunction with a supervisor. The thesis reporting the empirical research represents 15 of the 24 points required for the Honours year.

Approximately weekly meetings with the supervisor. This highly independent research project does not involve regular lectures or tutorials.

Prerequisites: Enrolment in Psychology Honours (BSc(Hons)) OR Enrolment in Psychology Honours (BPsych(Hons))

### **Building Blocks for Science Students (BSC100)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Now more than ever we look to science to help overcome major challenges facing the world we live in. Approaching science requires an understanding of the scientific method and skills. This unit will facilitate your transition into university and give you the framework of skills you need for lifelong learning including: literacy, numeracy and information technology; the ability to

collect, analyse and evaluate information; think clearly, critically and creatively; and discipline-specific skills in scholarly research, communication and ethical practice.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: Enrolment in a Bachelor of Science, Bachelor of Animal Science, Bachelor of Environmental Management, Bachelor of Environmental Science, Bachelor of Extractive Metallurgy, Bachelor of Forensics, Bachelor of Information Technology Management, Bachelor of Marine Science, Bachelor of Sports Science, Bachelor of Technology in Engineering Technology, or Bachelor of Sustainability.

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

### **Business Analysis and Systems Development Approaches (ICT501)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit aims to further develop the knowledge and skills that are critical to effective business analysis and design, building on knowledge from undergraduate systems analysis and design units. The unit emphasises business process modelling and the tools that can be used to analyse, model, and design business processes. Agile system development methodologies will be contrasted with more formal approaches and the unified process life cycle model examined. User experience design and software evaluation and selection, will also be covered.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate IT course or in G1074 Graduate Diploma in Games and App Production or permission of the Academic Chair.

Exclusions: Students who have completed ICT532 Advanced Business Analysis and Design may not enrol in this unit for credit.

### **Business Analytics (ICT601)**

Credit Points: 3

MURDOCH: S2-internal

Business analytics is a broad term that encompasses a number of skills, technologies and approaches to the analysis of business data for the purpose of supporting management decision-making. This unit will explore business analytics using a number of case studies, real life datasets and publicly available analytics tools. Students will apply the theories addressed in the unit to case studies in order to develop the technical skills required to develop a deeper understanding of business analytics.

Workshops: 3 hours per week.

Prerequisites: Enrolment in a graduate-level Information Technology course. No specific unit prerequisites, but some familiarity with fundamentals of programming and database theory and practice would be helpful.

### **Business Analytics and Decision Making (BUS334)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit aims to help students understand how business theory can be practically applied so as to gain a better understanding of the wider business environment. It helps students assess a company's prospects and outlines the steps towards developing a strategic business plan. It offers students challenging but exciting

opportunities to enhance their management skills.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS223 Organisational Theory and Behaviour and BUS240 Organisation Development and Human Resource Management OR BUS293 Organisational Theory and Behaviour and BUS298 Organisational Change and Development

### **Business and Governance Research Practicum (MBS643)**

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

May be taken as an elective in any area of study covered in the Master of Business Administration, Master of Human Resource Management or as a core unit in the Master of Professional Accounting. This unit may involve original research, a replication of published research in a different setting or applied studies of a problem-solving nature. Enrolments are subject to the availability of an appropriate staff member to supervise and a suitable project.

Workshops: Up to 5 workshops per enrolment period. Please speak to the unit coordinator for these workshops.

Non-timetabled learning experiences are particularly important in this unit. The unit readings, preparation of assessment items and other out-of-class tasks involve independent, guided scholarship and the application of knowledge and skills with high level personal autonomy and accountability. Project work will take up approximately 220 hours over the teaching period. Regular meetings with academic supervisors and/ or industry coaches will be expected, and is additional to project work. Presentation sessions are where students share their placement experiences with their peers and academic staff.

Prerequisites: MBS520 Research Preparations for Business

Exclusions: MBS644/MBS649 Business and Governance Research Practicum/MBS654 Business Professional Placement;

Enrolments are subject to the availability of an appropriate staff member to supervise and a suitable project.

### **Business and Governance Research Practicum (MBS644)**

Credit Points: 9

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

This unit provides an opportunity for Masters students to enhance their expertise by completing an applied business project. The project will involve completing a translational research project with an academic supervisor.

Workshops: Up to 5 workshops per enrolment period. Please speak to the unit coordinator for these workshops.

Non-timetabled learning experiences are particularly important in this unit. The unit readings, preparation of assessment items and other out-of-class tasks involve independent, guided scholarship and the application of knowledge and skills with high level personal autonomy and accountability.

Project work will take up approximately 330 hours over the teaching period. Regular meetings with academic supervisors and/ or industry coaches will be expected, and is additional to project work.

Presentation sessions are where students share their placement experiences with their peers and academic staff.

Prerequisites: Enrolment in a Business Master's Program and completion of at least 12 points of Masters units; and completion of, or concurrent enrolment in, MBS520 Research Preparation for Business or equivalent.

Exclusions: MBS643/MBS649 Business and Governance Research Practicum/MBS654 Professional Internship in Business

Enrolments are subject to the availability of an appropriate staff member to supervise and a suitable project

### **Business and Governance Research Practicum (MBS649)**

Credit Points: 12

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

This unit may be taken as an elective in any area of study covered in the Master of Business Administration or Master of Human Resource Management subject to the approval of Academic Chair. A substantial formal report is submitted for assessment and may involve original research, a replication of published research in a different setting or applied studies of a problem-solving nature. Enrolments are subject to the availability of an appropriate staff member to supervise and a suitable project.

Workshops: Up to 5 workshops per enrolment period. Please speak to the unit coordinator for these workshops.

Non-timetabled learning experiences are particularly important in this unit. The unit readings, preparation of assessment items and other out-of-class tasks involve independent, guided scholarship and the application of knowledge and skills with high level personal autonomy and accountability. Project work will take up approximately 220 hours over the teaching period. Regular meetings with academic supervisors and/ or industry coaches will be expected, and is additional to project work. Presentation sessions are where students share their placement experiences with their peers and academic staff.

Prerequisites: MBS520/MBS620 Research Preparation for Business

Exclusions: Students who have successfully completed MBS612 Research Project, MBS644 Business and Governance Research Practicum, MBS654 Business Professional Placement, or MBS643 Business and Governance Research Practicum may not enrol in this unit for credit.

Enrolments are subject to the availability of an appropriate staff member to supervise and a suitable project

### **Business Finance (MBS546)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-external, U-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit provides students with understanding of the macro-economic setting in which corporate financial decisions are made. Students will be exposed to finance theory and tools and techniques used in financial decision making. To assist students to acquire this understanding, it is necessary for students to perform basic financial calculations. The conceptual framework and techniques covered in this unit will provide students who wish to progress to a practitioner role within the finance discipline with a foundation for further studies.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have completed MBS605 Business Finance may not enrol in this unit for credit.

### **Business Intelligence Application Development (ICT394)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
DUBAI-ISC: TSD-internal  
KAPLAN-SGP: TSA-internal

Business Intelligence (BI) has become a focus of organisations wishing to make more effective use of their data resource. This unit examines both the theoretical and practical aspects of BI, from discovery, inventory, extraction and transformation of data sources, through the common approaches to data analysis, to management reporting environments (MRE). The practical component of this unit will involve students creating a data warehouse and MRE, using a range of BI tools used in industry.

Computer laboratories: 2 hours per week.

Prerequisites: ICT285/ICT218 Databases.

### **Business Intelligence Tools and Techniques (ICT208)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

Business Intelligence (BI) is a set of outcomes aimed at facilitating improved decision making through the analysis and presentation of organisational data to decision makers. This unit explores the tools and methods used in BI, building upon your exposure to database theory in earlier units. Topics include: decision making, organisational data sources, data warehousing, data analysis, data and text mining, business performance management and BI presentation suites. Theories introduced are complemented by workshop sessions using various BI tools and techniques.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: ICT218/ICT285 Databases.

Exclusions: Students who have successfully completed ICT208 Commercial Computing may not enrol in this unit for credit.

### **Business Negotiations: An International Perspective (BUS341)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

To succeed in the fiercely competitive global market of the twenty-first century, it is necessary to develop managers and potential managers with a capability to negotiate complex transactions in an international setting. This requires knowledge and skills of negotiation and in the global context to possess cultural knowledge, and understand culture's impact on the negotiating process. This course analyses the nature of negotiation, examines negotiating strategies, and considers challenges faced by negotiators in an international setting.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS284 Comparative Corporate Governance and International Operations

Exclusions: Students who have successfully completed BUS346 Chinese Business Negotiations may not enrol in this unit for credit.

### **Business of Freelancing (WEB303)**

Credit Points: 3

MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit focuses on the business and management of setting up and running a creative practice as a freelancer in an online environment. This will involve focusing on business fundamentals, taxation, contracts, estimating, budgets, grant writing and securing funding for freelancers.

Seminars: 4 hours every second week

Prerequisites: Nil.

### **Business Professional Placement (MBS654)**

Credit Points: 6

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This unit provides an opportunity for Masters students who are well-advanced in their studies to enhance their expertise by undertaking a business professional placement within a business, government agency or non-government organisation. Placements provide opportunities to apply business knowledge and skills within diverse organisational settings, while being guided by academic supervisors. Professional placements require self-motivation and professionalism. They can also be very rewarding, providing career-relevant skills, experiences and contacts.

Up to 5 Seminars at various point through the semester. Information will be made available on the Learning Management System for students.

Placement within the host organisation is for approximately 220 hours over the teaching period. Regular meetings with both academic and workplace supervisors. Presentation sessions where students share their placement experiences with their peers and academic staff. Non-timetabled learning experiences are particularly important in this unit. The unit reading, preparation of assessment items and other out-of-class tasks involve independent, guided scholarship and the application of knowledge and skills with high level personal autonomy and accountability.

Prerequisites: Enrolment in a Business Master's Program and completion of at least 24 points of Masters units, with a Grade Point Average of 2.5 or higher; successful completion of, or concurrent enrolment in, MBS520 Research Preparation for Business or equivalent.

Exclusions: MBS643/MBS644/MBS649 Management and Governance Research Practicum

Acceptance into the unit depends upon a demonstrated continuous high standard of academic performance and availability of academic and industry supervisors. Students intending to undertake an internship should make an appointment to see the Unit Coordinator before completing an expression of interest at <http://www.murdoch.edu.au/Work-Integrated-Learning/Students/Expression-of-interest/>

### **Business Valuation (MBS665)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

This unit provides an overview of the concept of value and the standards, concepts and principles of valuation and their application in the financial and corporate world. It gives an introduction to valuation theory together with practical skills in business valuation. Different approaches to business valuation will be explored together with outcomes that are theoretically sound

and legally defensible in practice.

2.5 hour seminar per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

Self-directed on-line learning activities:  
Readings: 2.5 hours per session = 30 hours  
Workshop preparation 8 hour = 96 hours

Prerequisites: Enrolment in Master of Professional Accounting

### **Business, Society and the Environment (MBS662)**

Credit Points: 6

MURDOCH: S1-internal, S1-external  
DUBAI-ISC: TMD-internal  
KAPLAN-SGP: TMA-internal

This unit addresses key issues about the relationship between business, society and the environment in order to foster a critical understanding of the role of firms in contemporary societies. It will pay special attention to the interplay of markets, politics, sustainability science and ethical reasoning in order to foster responsible management-and-governance approaches.

Workshops: 2 hours per teaching week for MUISC Dubai  
Workshops: 4 hours per fortnight at Kaplan SGP

At least 3 industry guest lecturers will be invited during the Trimester to share on lived experiences around sustainability challenges.

Prerequisites: Enrolment in a graduate-level course

Exclusions: Students who have successfully completed MBS530/MBS540 Business, Society and the Environment may not enrol in this unit for credit.

### **Calculus and Matrix Algebra (MAS161)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Calculus and matrix algebra form the basis of the mathematical knowledge required to model physical, environmental, biological and engineering systems and investigate their behaviour. This unit assumes an understanding of the basic topics and develops them further. Vector and matrix operations, determinants, inverses and eigenvalues will be considered along with differentiation, integration, sequences and series, differential equations, and introductory multivariable calculus. Applications will be considered, with computer algebra packages used to reduce tedious calculations and present results.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS182 Applied Mathematics OR a final scaled score of 55% or more in TEE Calculus or equivalent OR a final scaled score of 55% or higher in ATAR Mathematics Specialist (or WACE Mathematics: Specialist 3C/3D).

Exclusions: Students may not enrol in this unit and either MAS164 Fundamentals of Mathematics or MAS182 Applied Mathematics concurrently.

### **Campaign Management (MCC307)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit consolidates professional public relations skills through practical experience with a 'real life' organisation. Working in teams, students develop a public relations strategy or communication plan for a not-for-profit organisation over the course of the semester, culminating in a formal conference presentation to the organisation, students and mentors. Students

learn about strategy development, client management, program research, planning, design and evaluation as well as budgeting and scheduling.

Lectures: 1 hour per week; tutorials: 1.5 hours per week; student conference (all day).

As part of this unit you will be expected to meet with clients outside of the lectures and tutorials in your own time. You will also be expected to attend a full day's conference during the study break before exams.

Prerequisites: MCC204 Public Relations: Contemporary Approaches.

Exclusions: Students who have successfully completed MSC307 Media Planning and Promotion may not enrol in this unit for credit.

### **Campaign Management (PRO307)**

Credit Points: 3

MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit consolidates professional public relations skills through practical experience with a 'real life' organisation. Working in teams, students develop a public relations strategy or communication plan for a not-for-profit organisation over the course of the semester, culminating in a formal conference presentation to the organisation, students and mentors. Students learn about strategy development, client management, program research, planning, design and evaluation as well as budgeting and scheduling.

Lectures: 1 hour per week; tutorials: 1.5 hours per week; student conference (all day).

Lectures and tutorials start in week 1.

You will not be able to pass the unit without participating fully in the tutorials and the group project. You cannot pass tutorial participation/peer assessment if you miss more than two tutorials without a medical certificate or other appropriate evidence. You cannot pass the unit if you miss more than three tutorials.

Attendance for the conference (held during the study week, prior to exams) is compulsory.

Students are expected to prepare for tutorials by completing the readings and study questions and attending lectures.

The conference is held during the study week prior to exams and attendance is compulsory. Client and group meetings will also be a part of this unit

Prerequisites: You will need to have successfully completed MCC204 Public Relations: Contemporary Approaches / PRO204 Public Relations Strategy in order to enrol in this unit. It is also useful if students have successfully completed MCC345 / PRO345 Issues and Crisis Management.

Exclusions: Students who have successfully completed MCC307 Campaign Management may not enrol in this unit for credit.

### **Capstone Consultancy Project (MBS639)**

Credit Points: 6

Not available this year

This module provides participants with an opportunity to work on a real organisational challenge with a selected partner organisation mentored by in-house faculty. The project undertaken will consolidate, extend and apply the interdisciplinary learnings of the program. Knowledge, skills and characteristics in leadership, strategy, and innovation are refined and fused with business acumen integrating entrepreneurial instincts and disciplinary skills. Finally a professional approach, with appropriate ethical principles, attributes and values informs the solutions developed. Note: this module is 6 credit points.

TBA for 2018

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **Carbon and Climate: A Wicked Problem (BRD203)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Due to steadily increasing concentrations in the atmosphere from the burning of fossil fuels, carbon is currently attracting considerable public interest associated with topical human issues and impacts - real and perceived. This unit describes the nature of the problem, which needs to be tackled broadly because there are no simple solutions. Scientific / technical opportunities and limitations are explored together with their economic, legal and social implications, to develop a deeper understanding of the current political controversy.

Lectures: 1 hour per week; workshops: 1 x 2 hours per week.

Recommended readings.

Prerequisites: Nil.

This is a University-Wide Breadth Unit.

### **Carbon Management (PEN598)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-external

This unit develops knowledge of the frameworks, strategies and methods for managing (reducing) greenhouse gas (carbon) emissions at the international, national and entity level. This includes the main policy and financial instruments used at national level. The course also looks at the financial instruments and management strategies used to effectively manage carbon emissions at entity level. The latter part of the course looks at the standards and methodologies for the generation of carbon offsets and achieving credible carbon neutrality.

Lectures/workshops: 1 x 3 hours per week

Prerequisites: Enrolment in an Honours or Graduate-level course. Recommended PEN597 Climate Change Science and Policy and PEN504 Greenhouse Gas Reporting and Lifecycle Assessment.

### **Cardiopulmonary Rehabilitation (EXS501)**

Credit Points: 3

MURDOCH: T1-internal

Lectures: 2 hours; laboratories/workshops: 2 hours.

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys and completion of years 1-3.

Exclusions: Students who have successfully completed CHI552/EXS522 Cardiopulmonary Rehabilitation may not enrol in this unit for credit.

### **Cardiopulmonary Rehabilitation (EXS552)**

Credit Points: 2

MURDOCH: T1-internal

This unit will provide the student with an advanced understanding of cardiopulmonary assessment and cardiopulmonary rehabilitation techniques. The student will be provided advanced information concerning a cardiopulmonary disease and conditions that limit physical function. The learner will be provided with the necessary skills to devise a rehabilitation program for a range of individuals with cardiopulmonary disorders.

Lectures: 2 hours; laboratories/workshops: 2 hours.

Prerequisites: The successful completion of all BSc Exercise Physiology core units from years 1 to 3.

Exclusions: Student who have successfully completed CHI552 Cardiopulmonary Rehabilitation may not enrol in this unit for credit.

### **Case Based Inquiry Acute Care Perspectives 1 (NUR232)**

Credit Points: 3

MURDOCH: S1N-internal

MANDURAH: S1N-internal

This unit will engage students in simulated case based inquiry to introduce them to the complexity of caring for patients in acute care settings. Students will explore health and illness across the lifespan through the lens of the acute care nurse incorporating critical thinking, problem solving, and evidence based practice to provide holistic nursing care. This unit is the first of three units with a medical-surgical focus that reflect current health trends in Australia focusing on national health priority areas.

Workshop: 3 hours per week

Prerequisites: Enrolment in Bachelor of Nursing and NUR231 Complexities of Health and Illness Across the Lifespan 1. Completion of all Year 1 nursing units.

Exclusions: Students who have successfully completed NUR203 may not enrol in this unit for credit.

### **Case Based Inquiry Acute Care Perspectives 2 (NUR242)**

Credit Points: 3

MURDOCH: S2N-internal

MANDURAH: S2N-internal

This unit will engage students in simulated case based inquiry to introduce them to the complexity of caring for patients in acute care settings. Students will explore health and illness across the lifespan through the lens of the acute care nurse incorporating critical thinking, problem solving, and evidence based practice to provide holistic nursing care. This unit is the second of two units with a medical-surgical focus that reflect current health trends in Australia focusing on national health priority areas.

Workshop: 3 hours per week

Prerequisites: Enrolment in Bachelor of Nursing and NUR241 Complexities of Health and Illness Across the Lifespan 2. Completion of all Year 1 nursing units, NUR232 Case Based Inquiry Acute Care Perspectives 1 or NUR203 Acute Care 1.

### **Case Based Inquiry Community Perspectives 1 (NUR233)**

Credit Points: 3

MURDOCH: S1N-internal

MANDURAH: S1N-internal

This unit will engage students in simulated case based inquiry to introduce them to the complexity and multifaceted nursing management of patients in the community setting. Students will explore health, illness and disability across the lifespan through the lens of the community nurse incorporating critical thinking, problem solving, and evidence based practice to provide holistic nursing care. This unit is the first of two community centred units that reflect current health trends in Australia focusing on national health priority areas.

Workshop: 3 hours per week

Prerequisites: Enrolment in Bachelor of Nursing and NUR231



Complexities of Health and Illness Across the Lifespan 1.  
Completion of all Year 1 nursing units.

Exclusions: Students who have successfully completed NUR206 may not enrol in this unit for credit.

### **Case Based Inquiry Community Perspectives 2 (NUR243)**

Credit Points: 3

MURDOCH: S2N-internal  
MANDURAH: S2N-internal

This unit will engage students in simulated case based inquiry to introduce them to the complexity and multifaceted nursing management of patients in the community setting. Students will explore health, illness and disability across the lifespan through the lens of the community nurse incorporating critical thinking, problem solving, and evidence based practice to provide holistic nursing care. This unit is the second of two community centred units that reflect current health trends in Australia focusing on national health priority areas.

Workshop: 3 hours per week

Prerequisites: Enrolment in Bachelor of Nursing and NUR241 Complexities of Health and Illness Across the Lifespan 2. Completion of all Year 1 nursing units and NUR233 Case Based Inquiry Community Perspectives 1 or NUR206 Contemporary Nursing Management of Mental Illness.

Exclusions: Students who have successfully completed NUR259 may not enrol in this unit for credit.

### **Case Based Inquiry Complex Care Perspectives (NUR353)**

Credit Points: 3

Not available this year

Through simulated case based inquiry students will continue to develop their understanding of complex patient care. This final case based inquiry unit will extend the students ability to practice holistic nursing care through the management of complex patient scenarios by incorporating critical thinking, problem solving, and evidence based practice. Students will be required to utilise the knowledge and skills gained throughout their degree to prioritise patient care in a range of settings that reflect current health trends in Australia.

Workshop: 3 hours per week

Prerequisites: Completion of all Year 1 and Year 2 nursing units/  
Co-requisite: NUR352 Complexities of Health and Illness Across the Lifespan 3

### **Case Conceptualisation and Assessment in Counselling (CSL566)**

Credit Points: 3

MURDOCH: S1-internal  
MANDURAH: S2-internal

This unit prepares students for counselling practice by providing a framework for conceptualising and assessing common problems encountered in counselling practice.

Murdoch: One 3 hour seminar each study week of the semester.  
Mandurah: This unit is offered on an intensive schedule at the Mandurah campus and will meet for three 3.5 hour seminars and three 7.5 hour seminars per semester. Meeting times are structured around the meeting times of CSL582 enabling students to complete both units (9 credit points in total) through attendance on campus one day per week.

Prerequisites: Enrolment in the Graduate Certificate in Counselling,

Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies, or Master of Counselling. Completion of, or current enrolment in CSL582 Principles of Counselling 1 or by permission of the Counselling Academic Chair.

### **Case Reports (VET622)**

Credit Points: 3

MURDOCH: S1-external (quota of 20 places), S2-external (quota of 20 places)

This unit aims to develop professional writing skills. Two reports describing cases candidates have managed must be written to publication standard. One should demonstrate ability to diagnose and manage a medical or surgical case using a problem solving approach. The second requires a review of relevant literature and should demonstrate ability to integrate wider reading into patient management.

Prerequisites: Enrolment in the Master of Veterinary Studies (M1022), Master of Veterinary Clinical Studies (M1223), or Doctor of Veterinary Medical Science (D1061). VET622 Case Reports can only be taken by candidates who have passed or are currently enrolled in at least 12 points of Masters units.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### **Case Studies of Renewable Energy Systems (PEN620)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

A set of case studies is used to develop key knowledge on the principles of innovation, project management, demonstration and commercialisation of renewable energy systems. Students are taught skills in analysing case studies to extract lessons that can inform planning of future renewable energy projects. The unit also includes a review of the renewable energy industry, in terms of markets, funding sources and emerging applications.

Lectures/discussions: 1 x 3 hours per week for 11 weeks  
Student Presentations: 1 x 3 hours per week in final week.

Prerequisites: PEC592/PEN592 Energy in Society.

### **Cattle and Camelid Medicine, Production and Surgery (VET455)**

Credit Points: 3

MURDOCH: S2-internal

The unit covers the diagnosis, treatment, prevention and control of diseases of cattle and camelids. Particular emphasis is placed on the prevention of disease and correction of management and nutritional factors affecting production in cattle. The general principles involved in the investigation of cattle herd problems are emphasised.

Lectures: 48 hours; practicals: 12 hours.

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice.



**Cell Biology (BIO152)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces components of cells, their synthesis, function and control mechanisms; demonstrates the integrated, controlled nature of the normal cell; and develops both manual and conceptual skills in biology. Topics: cell ultrastructure; proteins; enzymes; membranes; energy metabolism; oxidative phosphorylation; electron transport chains; photosynthesis; structure of DNA; transcription and the role of RNA in the cell; the genetic code; translation and the role of ribosomes; gene control; DNA synthesis; chromosomes and mitosis; meiosis; introduction to genetics, inheritance and cell specialisation.

Lectures: 3 hours per week; laboratories: 6 x 3 hour sessions per semester; optional Peer Assisted Study Session (PASS): 1 hour per week.

Worksheets to reinforce the application of concept are provided in the LMS. Students work on these independently and check their answers after completion. These provide a framework for the level of understanding required.

Prerequisites: A thorough knowledge of ATAR Chemistry is assumed. For students who did not achieve a WACE course score of more than 50% in Chemistry (3A/3B) or Chemistry ATAR within the three years immediately preceding enrolment, completion of or concurrent enrolment in CHE140 Fundamentals of Chemistry is required.

Exclusions: Students who have successfully completed BIO152 Foundations of Cell and Molecular Biology/Foundations of Cell Biology cannot enrol for credit in this unit.

**Challenges in Food Security (BIO681)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The global food security challenge is to feed the world in the face of climate change, population growth, uneven food distribution, nutritional security, volatile markets and degraded ecosystems. The challenge includes 'globesity': a public health and social issue that is directly related to food security. Through several case studies, we will discuss some key historical, scientific and social factors that have helped shape current ideas on food security and the food system as a whole.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

**Changing Behaviour in Policy and Practice: The Psychology of Influence (PSY609)**

Credit Points: 3

Not available this year

In order to translate research findings about human behaviour into policies that improve health, economic and social relations, we need to understand the basics of attitudinal and behavioural change. This course provides a scaffold for an evidence-based approach to behavioural and social change. The emphasis will be on applying this knowledge to specific pressing health and social issues such as immunisation uptake, antibiotic overuse, obesity, occupational safety, environmentally sustainable behaviours and inter-group relations.

Three and a half hour teaching blocs ('modules') scheduled weekly over six weeks (total 21 hours), with a final three hour bloc

scheduled three weeks after the final weekly class (unit total 24 hours).

Each weekly module contains: Lectures: 1 hour per week; lecturer-led discussions: 1 hour per week; facilitated group work: 1.5 hours per week.

Final module consists of student presentations of campaign projects, with constructive feedback from peers and teaching staff.

Prerequisites: Nil.

**Changing Economies of Asia (BUS272)**

Credit Points: 4

KAPLAN-SGP: TMA-internal

This unit involves a comparative examination of the development and economic performance of selected Asian economies. The spectacular performance of some Asian economies has shifted the world balance of economic power and has major implications for all trading nations. Topics covered include growth theories, globalisation, government policy, export-led growth, multinational corporations, financial markets, corporate governance, labour markets, the environment and income distribution.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

**Chaplaincy in Theory and Practice (THE513)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces the theoretical foundations of chaplaincy. Students will also have the opportunity to develop an understanding of specific forms of chaplaincy (schools, hospitals, industrial contexts, etc.) with an emphasis on the practice of chaplaincy in these specific contexts.

Seminars: 1 x 2 hours per week

Prerequisites: Enrolment in graduate level study.

**Chemical Analysis (CHE207)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Determining the chemical constituents of solutions, materials, foods, soils and other complex mixtures requires the use of chemical analysis. This unit will provide students with a sound grasp of the fundamental principles underlying modern analytical chemistry and provides instruction in sample preparation, obtaining quality data and the use of wet chemical, separation, spectroscopic and electrochemical techniques. Students are trained in laboratory techniques frequently used in chemical, environmental, and forensic analysis, enabling them to solve practical analytical problems in many contexts.

Lectures/workshops: 3 x 1 hour per week; laboratories: 4 hours per week for 10 weeks.

External: compulsory 5-day on-campus laboratory session.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to commencement of the teaching period.

External students will be required to attend a compulsory 5-day on-campus laboratory session.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to commencement of the teaching period.

Prerequisites: CHE144 Foundations of Chemistry/PEC144 Chemical

Principles.

Exclusions: Students who have successfully completed PEC240/CHE240 Chemical Analysis or BIO251 Analytical and Food Chemistry may not enrol in this unit for credit.

### Chemical Process Kinetics (ENG255)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit considers the principles of chemical kinetics and the application of kinetics to various chemical/metallurgical processes. The unit considers the rate equations, reaction orders, rate constants, activation energy, reaction mechanisms and kinetic modelling of chemical and electrochemical reactions which involve homogeneous as well as heterogeneous reactions with particular attention to unit operations involved in mineral processing, hydrometallurgy and pyrometallurgy.

Lectures: 1 x 3 hours per week; laboratories: 1 x 3 hours per week

Prerequisites: All Part I units in the Chemical and Metallurgical Engineering Honours major.

### Chemical Process Safety (ENG520)

Credit Points: 3

MURDOCH: S1-internal, S1-external

The chemical industry is entering an era of complexity which requires chemical/process engineers and practitioners to understand the safety technology. This unit is designed to present the application of fundamentals of chemical process safety relevant to industry suitable for chemical, mechanical, environmental engineers and chemists. The primary objective is to emphasise the technical fundamentals of chemical process safety in order to assist the students and practising scientists to understand the concepts which in turn can be applied in practice.

Lectures: 3 x 1 hour per week; tutorials/workshops: 1 hour per week.

Prerequisites: Enrolment in the Graduate Diploma in Safety Science.

### Chemistry for Teaching Secondary (7-10) (CHE540)

Credit Points: 3

Not available this year

This unit introduces fundamental concepts that prepare teachers to engage in the Chemical Sciences elements of the Year 7-10 SCASA curriculum. The teachers will learn about the nature of matter at the molecular level. This involves learning language, symbols and representations used to describe matter and chemical reactions. They will develop skills in problem solving and calculations related to chemical quantities, processes and reactions.

Introductory lecture: 1 hour in Week 1 (optional); Support sessions (Clinic): 1 hour per week for 10 weeks (optional); Laboratory classes: 4 hours per week for 5 weeks. Up to 3 days intensive laboratory activities for external students.

Up to 3 days intensive laboratory activities for external students.

Prerequisites: Enrolment in the Graduate Certificate in Education (Secondary Science (7-10))

### Children and Crime (CRM302)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit explores the victimisation and subsequent offending behaviour of children. The unit will cover the different forms of victimisation experienced by children, as well as outline the socio-psychological ramifications of that victimisation. The unit then goes on to explore the ways in which victimisation may foster offending behaviour for children and explores ways of responding to child and juvenile offenders.

Seminars: 2 hours per week.

Online learning activity

Prerequisites: Successful completion of CRM100 Introduction to Criminology. and CRM203 Criminal Behaviour.

### Children's Literature in the Classroom (EDN308)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Literature is a key component of the Australian Curriculum - English. This unit encourages students to become familiar with a wide range of children's literature, including classic and contemporary literature and texts from world cultures, and provides students with opportunities to gain an understanding of key aspects of literary theory. The unit focuses on strategies for introducing literature in years K-10, and models innovative approaches that will enable school students to engage imaginatively and critically with literary texts.

Lectures/workshops: 3 hours per week.

External: No attendance required.

The unit coincides with Children's Book Council of Australia Book Week. Students are expected to engage in activities associated with Book Week either by attending a library or by arranging to visit their local primary school or library during Book Week.

Lectures/workshops: 3 hours per week.

External: No attendance required.

Prerequisites: Nil.

### Children's Theatre (EGL240)

Credit Points: 3

MURDOCH: S1-internal

What are the requirements for a successful theatrical performance when the audience comprises children in the primary school? The answers are examined both theoretically and practically. A range of workshop opportunities are offered through which to develop skills, whether as actors, designers, stage-managers, set-builders, musicians or lighting and sound technicians. Aim: to develop an ensemble of skilled theatre practitioners whose learning processes result in the public performance of an original script for an audience of children.

Workshops: 3 hours per week.

A season of performances to young audiences takes place in Nexus Theatre in a non-teaching week of semester.

Prerequisites: Nil.

Exclusions: Students who have completed EGL213 Children's Theatre may not enrol in this unit for credit.

**Children, Families and Communities (EDN332)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit studies the interaction and relationships between children, families, schools and the wider community. The unit specifically explores the knowledge, understandings and skills needed to work effectively with children and families in ways that respect diversity, support childrens' learning and engage the community. The aim is to develop both the knowledge and the skills that educators need for working with children and families in ways that both respect diversity and support students varied learning interests and needs.

Lectures: 1 hour per week; workshops: 2 hours per week.

The unit includes four lectures run by invited speakers who are representatives of the Department of Education and different community agencies. These lectures are essential for students to become familiar with ethical guidelines and legal responsibilities relevant to the profession and they afford opportunities for students to reflect upon school-community connections.

Prerequisites: Enrolment in a teacher education course. BEd students must ALSO have successfully completed EDU101/EDU1011 Introduction to Teaching AND EDU103 Principles of Language and Literacy; OR BED150/EDN112 Understanding Teachers' Work AND EDN111 Language for Learning and Teaching. BEd students should be enrolled in or have successfully completed a Part II Professional Experience unit.

**Chinese Business (BUS243)**

Credit Points: 4

KAPLAN-SGP: TMA-internal

This unit will provide an introduction for students to the broad context in which Chinese business operates, and will address the general history, philosophy, cultural and management issues related to Chinese business, including the concept of guanxi. Topics include a brief history of the evolution of Chinese business; its environment; understanding of the nature of multinational, transnational and small businesses; business leadership; motivation; human resource management; ethics and social responsibility issues; and future challenges in managing Chinese business.

Lectures: 2 hours; tutorials: 1 hour.

Prerequisites: Nil.

No knowledge of Chinese language is required.

**Chiropractic Skills (CHI354)**

Credit Points: 3

MURDOCH: S1-internal

Focuses on the presentation of musculoskeletal conditions associated with, but not limited to the spine and pelvis. Students will develop their basic biomechanics knowledge, static and motion palpation skills, soft tissue management techniques, mobilization and manipulation skills of the spine and pelvis. Clinical problem solving and critical thinking regarding the use of manual therapies will be developed. Aspects of evidence-based practice, problem solving, and effective patient communication will be addressed.

Lectures: 3 hours per week; Tutorial: 2 hours per week; Laboratory: 3 hours per week.

1 final theory assessment

1 practical theory

1 formative midterm theory assessment

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2.

**Chiropractic Skills and Principles III (CHI409)**

Credit Points: 2

MURDOCH: T1-internal

This unit integrates students' chiropractic technique, soft tissue treatments, and rehabilitation skills for various musculoskeletal conditions, and introduces various chiropractic technique alternatives in an evidence-based context. Students further develop foundations in manual skills and soft tissue treatments leading to better proficiency and competency, and develop understanding of patient and case management for typical disorders seen in practice. The theory component introduces students to major orthopaedic and neurological conditions affecting infants and children, and discusses management of conditions affecting the ageing population.

Lectures: 2 hours per week; practical laboratories: 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and successful completion of Bachelor of Science (Chiropractic), CHI301 Processes in Human Disease, CHI302 Diagnosis and Chiropractic Skills, CHI303 Primary Practice I: Clinical Science and Diagnosis, CHI304 Clinical Orthopaedics and Neurology, and CHI309 Chiropractic Skills and Principles II.

**Christology (THE625)**

Credit Points: 3

Not available this year

In this unit we will investigate the Christian understanding of the person and work of Jesus Christ. In particular, we will explore the critical questions modern secular thinking poses for Christian understandings of Jesus Christ and possible theological responses. This will take place in critical interaction with the classical themes and questions of Christology and salvation as well as contemporary approaches.

Seminars: 1 x 2 hours per week

For internal and external students, an online discussion forum is part of the unit, which will facilitate interaction between students with input from the tutor.

Prerequisites: THE505 Thinking Theology and THE510 Emerging Christian Theology - The Creeds (100-500CE)

Exclusions: Students who have successfully completed THE258 Christology cannot enrol in this unit.

**Church, Ministry and Sacraments (THE663)**

Credit Points: 3

Not available this year

This unit will examine historical and contemporary Christian thinking about the nature of the church as a social reality and an object of faith, the theology and practice of ministry, ordained and unordained, and the nature of the sacraments, especially baptism and eucharist.

Seminars: 1 x 2 hours per week.

For internal and external students, an online discussion forum is part of the unit, which will facilitate interaction between students with input from the tutor.

Prerequisites: THE505 Thinking Theology

**Circuits and Systems I (ENG125)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides the necessary skills for the analysis of direct current (DC) electrical circuits and systems. In particular it is concerned with the study of fundamentals of electricity, DC circuits, nodal and mesh analysis, superposition and linearity, network laws and theorems, capacitors and inductors, operational amplifiers and their applications, basic RL, RC and RLC circuits and associated natural and forced responses.

Lectures: 1 x 1 hour per week; seminars: 1 x 1 hour per week; workshops: 1 x 1 hour per week; laboratories: 1 x 3 hours per week.

Prerequisites: Corequisite: MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra.

**Circuits and Systems II (ENG297)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides the necessary skills for the analysis of alternating current (AC) electrical circuits and systems. In particular, it is concerned with the steady-state analysis of circuits with sinusoidal excitation, the different types of power associated with AC circuits, three-phase circuits, magnetically coupled circuits, frequency response, resonance, bandwidth, two port networks, and principles of electromagnetism.

Lectures: 1 x 2 hours per week; laboratories: 1 x 3 hour session per week; workshops: 1 hour per week.

Prerequisites: ENG125 Circuits and Systems I; MAS182 Applied Mathematics OR MAS161 Calculus and Matrix Algebra.

Exclusions: Students who have successfully completed ENG126 Engineering Electrics or ENG243 Circuits and Systems II may not enrol in this unit for credit.

**Cities and Sustainability (SUS523)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Over half the world's population now live in urban areas and 75% could be urban by 2050. This unit examines the sustainability challenges that lie ahead as we become an increasingly urban species. It also explores how communities can respond to these challenges in a positive way, creating urban places and lifestyles that are more sustainable and that enhance human dignity and equality. In doing this, the unit draws on inspirational urban sustainability practices from around the world.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Enrolment in an Honours or Graduate-level course.

Exclusions: Students who have successfully completed STP220 Cities and Sustainability, SUS300 Cities and Sustainability, SUS300/310 Sustainable Urban Communities or STP623 Cities and Sustainability may not enrol in this unit for credit.

**Civil Procedure (LLB450)**

Credit Points: 3

MURDOCH: S1-internal

This unit covers the rules of civil procedure in Western Australia, including jurisdiction of Western Australian courts, commencement of proceedings and service of process, pleadings, discovery and other interlocutory proceedings, judgement (including enforcement), appeals, costs and alternatives to litigation.

Lectures: 3 hours per week. Workshops: Up to 10 hours per semester

Prerequisites: Enrolment in the final 24 points of the LLB or all LLB part 1 units, LAW260/LLB260 Contract, LAW253 Property/LLB253 Property Law A and LLB254 Property Law B, LAW258/LLB358 Australian Administrative Law, LLB259/LAW259 Constitutional Law and LAW252/LLB352 Evidence and BJU300 .

Exclusions: Students who have successfully completed LAW350/LAW450 Civil Procedure may not enrol in this unit for credit

**Climate Change Adaptation and Strategy (PEN503)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Develops understanding of the options for mitigating or adapting to the climate changes associated with human induced global warming at the global, national, regional, sectoral and entity level. It is the second of two units which use established frameworks, tools and approaches to developing practical, justifiable climate change adaptation plans and strategies based on scientific, risk based approaches. The unit teaches how to identify, rank and build into a strategy measures for responding to climate change effects on a sector or entity.

Lectures/workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in an Honours or Graduate-level course. Recommended PEN597 Climate Change Science and Policy and PEN504 Greenhouse Gas Reporting and Lifecycle Assessment.

**Climate Change Adaptation: Ecosystems and Societies (ENV680)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The consequences of climate change are increasingly felt at regional, national and local scales, and already adaptation strategies have begun to spell out the changes needed to cope. This unit explores the areas in which adaptation will be required and the processes by which change occurs in ecosystems and societies. It uses case studies from a variety of sectors and countries to provide a broad understanding of approaches which can assist us to meet the challenges posed by climate change.

Lectures: 1 hour per week; workshops 2 hours per week.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed STP680 Climate Change Adaptation: Policy and Practice may not enrol in this unit for credit.

**Climate Change Impact Assessment (PEN502)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Develops understanding of the predicted impacts of climate change associated with human induced global warming at the global, national, regional, sectoral and entity level. It is the first of two units which use established frameworks, tools and approaches to developing practical, justifiable climate change adaptation plans and strategies based on scientific, risk based approaches. The unit teaches how to identify potential climate change effects on a sector or entity's activities and assets and to identify and rank those potential impacts and risks.

Lectures/workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in an Honours or Graduate-level course. Recommended PEN597 Climate Change Science and Policy.

**Climate Change Science and Policy (PEN597)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit addresses the scientific, technological and policy aspects of global warming. This is a global environmental issue that has potentially major implications for all life on earth, including human society. In recent years the subject of global warming has produced an intense international debate over the scientific basis of the measurements and predictions. The policy responses need to be understood in the context of the science and the controversy.

Lectures/workshops: 3 hours per week

Prerequisites: Nil.

**Climate Change, Sustainability and Environmental Law (LLB356)**

Credit Points: 3

MURDOCH: S1B-internal

This unit reviews the various forms of legal control associated with environmental protection. It evaluates the comparative costs and benefits of private law and public law controls by reference not only to Australian but also to overseas models, particularly models heavily dependent on litigation.

Lectures: 24 hours taught intensively. Approx 5 hours per day over 1 week.

Prerequisites: Successful completion of all Part 1 units in the LLB and LAW260 Contract or LLB260 Contract.

Exclusions: Students who have successfully completed LAW356 Environmental, Sustainability and Climate Change Law may not enrol in this unit for credit.

**Clinical Biochemistry I (BMS323)**

Credit Points: 3

MURDOCH: S2-internal (quota of 25 places)

Clinical biochemistry is the stream of clinical pathology that measures levels of medically and physiologically important substances in body fluids for the diagnosis and treatment of disease. This unit will equip students with knowledge and understanding of routine diagnostic clinical biochemistry practice and develop the skills required to function in a diagnostic biochemistry laboratory. Topics covered include specimen collection, processing and storage, pathophysiology and laboratory investigations of renal and liver function, electrolyte and acid-base balance, and quality control and assurance.

Lectures/Tutorials: 3 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BIO247 Biochemistry

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

**Clinical Biochemistry II (BMS423)**

Credit Points: 3

Not available this year

The aim of this unit is to equip students with graduate level knowledge and understanding of routine and specialised diagnostic clinical biochemistry practice and to develop the skills required to function in a diagnostic biochemistry laboratory.

Lectures/Tutorials: 2 hours per week; laboratory sessions and/or

tutorials: 3 hours per week.

Prerequisites: BMS323 Clinical Biochemistry I

**Clinical Biomechanics (CHI457)**

Credit Points: 3

Not available this year

Deals with biomechanics of the spine and extremities as well as examination and skills. The clinical biomechanics component provides advanced training on forces and reactions applied to the human frame with particular emphasis on the spine. The biomechanics of common musculoskeletal injuries will be reviewed. The practical component incorporates review of orthopaedic examination and findings from a biomechanical perspective.

Lectures: 3 hours per week; Workshop: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BCLinChiro), and successful completion of Years 1 to 3, or permission of the Unit Coordinator.

**Clinical Governance (SHP641)**

Credit Points: 3

MURDOCH: S1-external

This unit is designed to foster knowledge of concepts, frameworks and practices of clinical and corporate governance, and an understanding of their application in health care settings. The integral links between an effective clinical and corporate governance framework and the four domains of patient safety and quality (consumer participation, clinical effectiveness, effective workforce and risk management) will be explored. The drivers and barriers to the implementation of effective governance within healthcare organisations will also be investigated.

Prerequisites: Nil.

Exclusions: Students who have previously completed NUR641 Clinical and Corporate Governance may not enrol in this unit.

**Clinical Haematology I (BMS326)**

Credit Points: 3

MURDOCH: S2-internal (quota of 25 places)

Clinical haematology is concerned with the aetiology, diagnosis, treatment, prognosis, and prevention of diseases of the blood and blood-forming tissues, including anaemia, haemophilia, leukaemia and thrombosis. Students will be equipped with a good understanding of routine diagnostic haematology practice and will develop the skills required to function in the clinical haematology workplace. This unit covers pathophysiology and laboratory investigations of normocytic, macrocytic and haemolytic anaemias, thalassaemia and haemoglobinopathies, platelets, blood grouping, antibody screening and identification, and automation in haematology.

Lectures/Tutorials: 3 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BMS218 Haematology

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

**Clinical Haematology II (BMS426)**

Credit Points: 3

Not available this year

The aim of the unit is to equip students with graduate level understanding of routine diagnostic haematology practice and laboratory skills required to function in the haematology workplace. This unit covers professional issues related to working in the haematology laboratory, the pathophysiology and laboratory investigations of haematological malignancies, transfusion practice, transplantation science, molecular diagnostic techniques, and paediatric and obstetric haematology.

Timetabled Learning Activities Lectures/Tutorials: 2 hours per week; laboratory sessions and/or tutorials: 3 hours per week.

Prerequisites: BMS326 Clinical Haematology I

**Clinical Immunology (BMS322)**

Credit Points: 3

MURDOCH: S2-internal (quota of 25 places)

Clinical immunology concerns diseases of the immune system such as hypersensitivity, immunodeficiency, autoimmune and allergic disorders, as well as managing non-immunological diseases using immunological therapies and tools. In this unit, students will apply their knowledge of the immune system to the development of laboratory skills used to conduct immunological diagnostic testing, and critically assess and analyse the results of these tests. Topics covered include immunopathology, immune tolerance, monoclonal antibody technology, tumour immunology, immunotherapy, vaccine efficacy, transplantation, immunoassays and flow cytometry.

Lectures/Tutorials: 4 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BMS211 Medical Immunology and Molecular Genetics

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Clinical Laboratory Science (BSc) or Laboratory Medicine (BSc/BLabMed).

**Clinical Legal Education (LLB390)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

Students in this unit participate in the legal practice at SCALES community legal centre based in Rockingham. Students will put their knowledge and skills into practice while assisting the community, and will develop professional commitment and ethical standards. Students also have an opportunity to assess the adequacy of law and legal processes in context. Under supervision of legal practitioners, students will see real clients, research and formulate advice and take responsibility for client files.

2-hr seminars in Weeks 6, 8, 10, 12

1 full day attendance at the Law Clinic and otherwise as required. Contact times will vary: contact Unit Coordinator for further information.

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB308 Introduction to Legal Practice.

Exclusions: Students who have successfully completed LAW390 Clinical Legal Education may not enrol in this unit for credit.

Students need to complete an Expression of Interest to apply for enrolment in this unit. For more information please contact the School of Law office.

A result of Ungraded Pass or Fail is awarded for this unit.

**Clinical Microbiology I (BMS324)**

Credit Points: 3

MURDOCH: S2-internal (quota of 25 places)

Clinical microbiology is the branch of laboratory medicine that is concerned with the prevention, diagnosis and treatment of infectious diseases. This unit will equip students with a good understanding of diagnostic medical bacteriology and virology and develop the skills required to function in the diagnostic microbiology workplace. Identification of key bacterial and viral pathogens is emphasised through laboratory testing including by serology, antigen detection methods and molecular diagnostics. Also covered are antimicrobial agents and antimicrobial resistance, and antimicrobial sensitivity testing.

Lectures: 2 hours per week; Tutorials: 1 hour per week; Laboratory sessions: 2 x 2 hours per week.

Prerequisites: BMS212 Medical Microbiology

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

**Clinical Microbiology II (BMS424)**

Credit Points: 3

Not available this year

This unit will equip students with a graduate level understanding of the infectious diseases encountered, and the techniques used, in the clinical diagnostic microbiology laboratory. There is an emphasis on professional issues associated with working in a clinical microbiology laboratory, as well as mycology and parasitology. This unit covers major infectious diseases that a diagnostic microbiologist encounter in a diagnostic laboratory, as well as the identification of key fungal and parasitic pathogens through laboratory testing using conventional and molecular diagnostic techniques.

Lectures/Tutorials: 3 hours per week; laboratory sessions: 2 hours per week.

Prerequisites: BMS324 Clinical Microbiology I

**Clinical Practice 1 (NUR119)**

Credit Points: 1

Not available this year

This unit is the first of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. Each of the units will incrementally support nursing students as they transition to registered nurse. This unit will focus on the fundamental nursing skills and knowledge that can be applied to the care of the individual and family. This unit will contribute 40 clinical hours towards integrated workplace learning completed within an aged care context.

Clinical Placement: 40 hours over 1 week period. Clinical Placement briefings: 2 x 4 hour sessions (one pre and one post clinical brief).

Prerequisites: Enrolment in Bachelor of Nursing. Co-requisite: NUR112 Health Across the Lifespan 1.

Completion of Clinical Practice 1 pre-practicum requirements (including documentation, serology, CPR, hand hygiene certificate, manual handling, police clearance, WA Department of Health clearance, certificate and maths).

Exclusions: Students who have successfully completed NUR151 may

7

not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### Clinical Practice 1/2 (NUR109)

Credit Points: 3

MURDOCH: SS3-placement

MANDURAH: SS3-placement

This unit is the first of seven clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the fundamental nursing skills and knowledge that can be applied to the care of the individual and family. This unit will contribute 120 clinical hours towards integrated workplace learning completed within either an aged care or medical rehabilitation unit context.

Clinical practice simulation: 2 x 4 hour sessions (one pre and one post clinical placement). Simulation: 8 hours over 1 week period.

Clinical Placement: 120 hours over 3 week period.

Prerequisites: Enrolment in Bachelor of Nursing. Co-requisite: NUR121 The Healthy Human Body 2. Prerequisite: NUR122 Health Across the Lifespan 2/NUR105 Nursing Health Assessment and Physical Examination and NUR123 Professional Nursing Practice 2/NUR153 Primary Health Care. Completion of all clinical practice documentation (refer to the Clinical Documentation Guide which is available to all enrolled students).

Exclusions: Students who have successfully completed either NUR155 or NUR119 and NUR129 combined may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### Clinical Practice 2 (NUR129)

Credit Points: 2

Not available this year

This unit is the second of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the fundamental nursing skills and knowledge that can be applied to the care of the individual and family. This unit will contribute 80 clinical hours towards integrated workplace learning completed within either an aged care or medical rehabilitation unit context.

Clinical Placement: 80 hours over 2 week period. Clinical Placement briefings: 2 x 4 hour sessions (one pre and one post clinical brief). Simulation: 8 hours over 1 week period.

Prerequisites: Enrolment in Bachelor of Nursing. Co-requisite: NUR122 Health Across the Lifespan 2. Completion of Clinical Practice 2 pre practicum requirements (including documentation, serology, CPR, hand hygiene certificate, manual handling, police clearance, WA Department of Health clearance, certificate and maths).

Exclusions: Students who have successfully completed NUR155 may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### Clinical Practice 3 (NUR239)

Credit Points: 3

MURDOCH: W6-placement

MANDURAH: W6-placement

This unit is the third of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the nursing skills and knowledge that can be applied to the complex

care of the individual, family and community. This unit will contribute 120 clinical hours towards integrated workplace learning completed within either a medical, surgical, mental health, community health or paediatrics context.

Clinical practice simulation: 2 x 4 hour sessions (one pre- and one post-clinical placement). Simulation: 16 hours over 1 week period.

Clinical Placement: 120 hours over 3 week period.

Prerequisites: Enrolment in Bachelor of Nursing. Completion of all Year 1 nursing units, NUR232 Case Based Inquiry Acute Care Perspectives 1 or NUR203 Acute Care 1, and NUR233 Case Based Inquiry Community Perspectives 1 or NUR206 Contemporary Nursing Management of Mental Illness or NUR256 Medication Management for Nursing. Completion of all clinical practice documentation (refer to the Clinical Documentation Guide which is available to all enrolled students).

Exclusions: Students who have successfully completed NUR257 may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### Clinical Practice 3: Medical/Surgical/Mental Health/Primary Health (NUR257)

Credit Points: 1

Not available this year

This unit is the third of six clinical practice units which provide the opportunity for students to develop clinical skills, knowledge and competency within different clinical contexts. Each of the units is intended to incrementally support students in their transition from nursing student to registered nurse. Building on the previous clinical practice units the focus is on the application of the acute care nursing skills and knowledge as they can be utilised within different clinical contexts.

Clinical Practice: 8 hours per day for 15 days (120 hours) within allocated placement period. Students will also be required to undertake an additional 8 hours in total pre and post placement for preparation and feedback.

Prerequisites: NUR203 Acute Care 1; NUR206 Contemporary Nursing Management of Mental Illness; NUR155 Clinical Practice 2 and NUR256 Medication Management for Nursing, OR NUR256 Medication Management for Nursing, NUR110 Introduction to Nursing Profession-Clinical Placement and NUR115 Health and Physical Assessment - Clinical Placement.

Exclusions: Students who have successfully completed other clinical context and hours should contact the Academic Chair.

Students will apply the skills and knowledge gained in the theoretical units they have successfully completed and will only be placed in these clinical contexts. The clinical fieldwork will contribute to the total of 1008 clinical hours over the six clinical practice units.

A result of Ungraded Pass or Fail is awarded for this unit.

### Clinical Practice 4 (NUR249)

Credit Points: 3

MURDOCH: SS3-placement

MANDURAH: SS3-placement

This unit is the fourth of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the nursing skills and knowledge that can be applied to the complex care of the individual, family and community. This unit will contribute 120 clinical hours towards integrated workplace learning completed within either an acute medical, surgical, mental health, community health, paediatrics, maternity or operating theatre



context.

Clinical practice simulation: 2 x 4 hour sessions (one pre and one post clinical placement). Simulation: 16 hours over 1 week period.

Clinical Placement: 120 hours over 3 week period

Prerequisites: Enrolment in Bachelor of Nursing. Completion of all Year 1 nursing units, NUR239 or NUR257 Clinical Practice 3, NUR242 Case Based Inquiry Acute Care Perspectives 2, NUR243 Case Based Inquiry Community Perspectives 2 or NUR259 Maternal, Child and Adolescent Nursing Care. Completion of all clinical practice documentation (refer to the Clinical Documentation Guide which is available to all enrolled students).

Exclusions: Students who have successfully completed NUR262 may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Practice 4: Medical/Surgical/Mental Health/Paediatrics/Maternity/Primary Health/Community Paediatrics (NUR262)**

Credit Points: 1

Not available this year

This unit is the fourth of six clinical practice units which provide the opportunity for students to develop clinical skills, knowledge and competency within different clinical contexts. Each of the units is intended to incrementally support students in their transition from nursing student to registered nurse. Building on the previous clinical practice units the focus is on the application of the acute care nursing skills and knowledge as they can be utilised within different clinical contexts.

Clinical Practice: 8 hours per day for 15 days (120 hours) within allocated placement period. Students will also be required to undertake an additional 8 hours in total pre and post placement for preparation and feedback.

Prerequisites: NUR257 Clinical Practice 3, NUR256 Medication Management for Nursing; NUR205 Acute Care 2; NUR259 Maternal, Child and Adolescent Nursing Care.

Exclusions: Students who have successfully completed other clinical context and hours should contact the Academic Chair.

Students will apply the skills and knowledge gained in the theoretical units they have successfully completed and will only be placed in these clinical contexts. The clinical fieldwork will contribute to the total of 1008 clinical hours over the six clinical practice units.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Practice 5 (NUR366)**

Credit Points: 3

MANDURAH: S2N-placement

This unit is the fifth of six clinical practice units which provide the opportunity for students to develop clinical skills, knowledge and competency within different clinical contexts. Each unit is intended to incrementally support students as they transition to registered nurses. Building on the previous clinical practice units the focus is on the consolidation of nursing skills and knowledge, and the processes of critically evaluating a variety of parameters to plan and coordinate patient care within different clinical contexts.

Clinical Practice: 8 hours per day for 30 days (240 hours) within allocated placement period. Students will also be required to undertake an additional 8 hours in total pre and post placement for preparation and feedback.

Prerequisites: Successful completion of the previous five semesters of core Nursing units.

Co-requisites: NUR365 Professional Issues in Nursing Practice and NUR367 Clinical Practice 6.

Exclusions: Students who have successfully completed other clinical context and hours should contact the Academic Chair.

Students will apply the skills and knowledge gained in the theoretical units and clinical laboratories to the clinical contexts to which they are assigned. This clinical fieldwork will contribute to the total of 1008 clinical hours over the six clinical practice units. Students are required to enrol full-time in the final semester of third year in NUR366 Clinical Practice 5, NUR367 Clinical Practice 6 and NUR365 Professional Issues in Nursing Practice.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Practice 5 Research Perspectives (BNR359)**

Credit Points: 3

Not available this year

This unit is the fifth of eight clinical practice units and includes a clinical placement and two intensive study periods on campus (each intensive study period delivered over a one-week period). Using the principles of inquiry-based learning, students will examine clinical policies to understand how current research affects evidence based nursing practice. This unit will contribute 80 clinical hours towards integrated workplace learning completed within either an acute medical, surgical, mental health, community health, paediatrics, maternity or operating theatre context.

Lecture: 3 x 2-hours; tutorials: 6 x 2-hours; clinical placement: 80 hours over a 3-week period; simulation: 4 hours over a 1-week period.

Prerequisites: Completion of all Year 1 and Year 2 Nursing units. Co-requisite: NUR352 Complexities of Health and Illness Across the Lifespan 3, and NUR353 Cased Based Inquiry Complex Care Perspectives.

### **Clinical Practice 6 (NUR367)**

Credit Points: 3

MANDURAH: S2N-placement

This unit is the final of six clinical practice units which provide the opportunity for students to develop clinical skills, knowledge and competency within different clinical contexts.

Building on the previous clinical practice units the focus is on the consolidation of nursing skills and knowledge, the processes of critically evaluating a variety of parameters to plan and coordinate patient care, and strategies that will support the student in their transition to registered nurse.

Clinical Practice: 8 hours per day for 30 days (240 hours) within allocated placement period. Students will also be required to undertake an additional 8 hours in total before and after placement for preparation and feedback.

Students must demonstrate evidence of meeting the NMBA Standards for the Registered Nurse (2016) at a level commensurate with a sixth semester nursing student to achieve a pass in this unit. Assessment will be based on the SHP Student Clinical portfolio containing:

- Student objectives for the particular clinical practice context
- Reflective papers about the student's experience within the particular clinical practice context
- Employer Competency Assessments
- Attendance Requirements
- Clinical Skills Assessments
- Interim and Final Regulatory assessments by clinical nurse facilitators, supervisors and staff in the clinical context within which the student is practising.

Prerequisites: Must have successfully completed the previous 5

semesters of core Nursing units.

Co-requisite: NUR365 Professional Issues in Nursing Practice and NUR366 Clinical Practice 5.

Exclusions: Students who have successfully completed other clinical context and hours should contact the Academic Chair.

Students will apply the skills and knowledge gained in the theoretical units and clinical laboratories to the clinical contexts to which they are assigned. This clinical fieldwork will contribute to the total of 1008 clinical hours over the six clinical practice units. Students are required to enrol full-time in the final semester of third year in NUR366 Clinical Practice 5, NUR367 Clinical Practice 6 and NUR365 Professional Issues in Nursing Practice.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Practice 6 (NUR369)**

Credit Points: 3

Not available this year

This unit is the sixth of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the nursing skills and knowledge that can be applied to the complex care of the individual, family and community. This unit will contribute 120 clinical hours towards integrated workplace learning completed within either an acute medical, surgical, mental health, community health, paediatrics, maternity, operating theatre or speciality context.

Clinical Placement: 120 hours over 3 week period. Clinical Placement briefings: 2 x 4 hour sessions (one pre and one post clinical brief). Simulation: 16 hours over 1 week period.

Prerequisites: Enrolment in the Bachelor of Nursing and completion of Years 1 and 2.

### **Clinical Practice 7: Transition to Registered Nurse (NUR379)**

Credit Points: 3

Not available this year

This unit provides the opportunity to develop clinical skills, knowledge and competence within clinical contexts. Each of the units will incrementally support nursing students as they transition to registered nurse. This unit focuses on the nursing skills and knowledge that can be applied to the complex care of the individual, family and community. This unit will contribute 120 clinical hours towards integrated workplace learning completed within either acute medical, surgical, mental health, community health, paediatrics, maternity, operating theatre or speciality context.

Clinical Placement: 120 hours over 3 week period. Clinical Placement briefings: 2 x 4 hour sessions (one pre and one post clinical brief). Simulation: 16 hours over 1 week period.

Prerequisites: NUR369 Clinical Practice 6

Co-requisite: NUR361 Professional Nursing Practice in a Complex World

Completion of Clinical Practice 7 pre-practicum requirements (including documentation, serology, CPR, hand hygiene certificate, manual handling, police clearance, WA Department of Health clearance, certificate and maths)

### **Clinical Practice 8: Transition to Registered Nurse (NUR389)**

Credit Points: 3

Not available this year

This unit is the final unit of eight clinical practice units that provides the opportunity for students to develop clinical skills, knowledge and competence within clinical contexts. This unit will focus on the nursing skills and knowledge that can be applied to the complex care of the individual, family and community. This unit will contribute 120 clinical hours towards integrated workplace learning completed within an acute medical, surgical, mental health, community health, paediatrics, maternity, operating theatre or speciality context.

Clinical Placement: 120 hours over 3 week period. Clinical Placement briefings: 2 x 4 hour sessions (one pre and one post clinical brief). Simulation: 16 hours over 1 week period.

Prerequisites: Co-requisite: NUR361 Professional Nursing Practice in a Complex World, NUR379 Clinical Practice 7

Completion of Clinical Practice 8 pre practicum requirements (including documentation, serology, CPR, hand hygiene certificate, manual handling, police clearance, WA department of Health clearance, certificate and maths).

### **Clinical Practicum (CHI499)**

Credit Points: 12

Not available this year

The core of students' clinical training. Students engage in supervised, active patient care in the University's outpatient and outreach clinic. Participation in clinical rounds where special interest topics and cases will be discussed; these are designed to enhance critical thinking skills and facilitate the application of the concepts of best practice, while providing teaching opportunities. Students complete rotations in radiology, rehabilitation, physiological therapeutics and front desk management. In the latter part of the year students serve as mentors for fourth year students.

Workshops: 1 hour per week.

Clinic duties/clinical tutorials/outreach clinics/rotations: 20 hours per week.

Directed online study: 2 hour per week.

Students are given opportunities to travel to rural outreach clinics in order to broaden their understanding of healthcare in rural and remote locations. These placements are subject to availability.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1-4 as well as successful completion of the clinical entrance exam.

### **Clinical Practicum (CHI584)**

Credit Points: 12

MURDOCH: Y5-placement

The core of students' clinical training. Students engage in supervised, active patient care in the University's outpatient clinic. Participation in clinical rounds where special interest topics and cases will be discussed; these are designed to enhance critical thinking skills and facilitate the application of the concepts of best practice, while providing teaching opportunities. Students complete additional rotations in radiology and front desk management. In the latter part of the year students serve as mentors for fourth year students.

Clinic duties/clinical rounds/rotations: 20 hours per week; lectures: 1 hour; workshops: 1 hour; practicals: 1 hour.

Prerequisites: Enrolment in BSc/BCChiro and successful completion of

years 1 to 4 and the Clinic Entrance Assessment.

### **Clinical Psychology: Developmental Disabilities (PSY567)**

Credit Points: 3

MURDOCH: S2-internal

This unit covers the major issues and methods that apply broadly to understanding and responding to challenges associated with developmental disabilities. The aim is to increase understanding of what constitutes a developmental disability and what are the effective assessment and treatment options.

Lectures: 3 hours per week.

Guest speakers from the Disability & Health sector will contribute to students' learning in this unit.

Prerequisites: Enrolment in MAppPsych (Clinical), DPsych (Clinical) or MAppPsych (Clinical)/PhD

### **Clinical Psychology: External Practicum (PSY604)**

Credit Points: 12

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Students must complete practical placements in appropriate agencies and organisations. They will be advised to select placements that meet APAC and Registration Board requirements. Students will also attend seminars in professional, practical and methodological issues.

Practical placements: 108 days total; seminars/workshops: as scheduled throughout the year.

Prerequisites: Enrolment in MAppPsych (Clinical) or MAppPsych (Clinical)/PhD; successful completion of PSY537 Clinical Psychology: Internal Practicum (Child, Youth and Family) or equivalent and PSY538 Clinical Psychology Internal Practicum (Adult) or equivalent; Provisional or General Registration as a Psychologist with Psychology Board of Australia.

Students are able to enrol in variable points in this unit to allow for the possibility that practica may straddle two calendar years.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Psychology: Internal Practicum (Adult) (PSY538)**

Credit Points: 3

MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

Placements are normally in the Murdoch Psychology Clinic. Placements will give students experience in various forms of investigation and intervention presently practised in clinical psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. This unit was previously called Applied Psychology Practical Placements I: Clinical Stream.

Practicum induction session: There are five weeks of practicum induction workshops at the beginning of practicum enrolment. Workshops are mostly combined for students in PSY537 and PSY538 though there are some additional workshops focussing specifically on working with children and families.

Practical placements: Approximately 9 months at 1 days per week or equivalent. Students target 480 practicum hours combined across PSY537 and PSY538. This target includes 192 direct client contact hours.

Prerequisites: Enrolment in MAppPsych (Clinical), DPsych (Clinical)

or MAppPsych (Clinical)/PhD; concurrent enrolment in or successful completion of PSY669 Psychotherapy in Practice; and concurrent enrolment with, or successful completion of, PSY565 Clinical Psychology: Working with Adults, and PSY662 Psychological Assessment: Theory and Method; Provisional Registration as a Psychologist with Psychology Board of Australia.

Exclusions: Students who have successfully completed PSY561 Clinical Psychology: Internal Practicum may not enrol in this unit for credit.

Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Clinical Psychology: Internal Practicum (Child, Youth and Family) (PSY537)**

Credit Points: 3

MURDOCH: H-placement, SUM-placement, U-placement, Y-placement

Placements are normally in the Murdoch Child Psychology Clinic. Placements will give students experience in various forms of investigation and intervention presently practised in clinical psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. This unit was previously called Applied Psychology Practical Placements I: Clinical Stream.

Practicum induction session: There are five weeks of practicum induction workshops at the beginning of practicum enrolment. Workshops are mostly combined for students in PSY537 and PSY538 though there are some additional workshops focussing specifically on working with children and families.

Practical placements: Approximately 9 months at 1 day per week or equivalent. Students target 480 practicum hours combined across PSY537 and PSY538. This target includes 192 direct client contact hours.

Prerequisites: Enrolment in MAppPsych (Clinical), DPsych (Clinical) or MAppPsych (Clinical)/PhD; concurrent enrolment in or successful completion of PSY669 Psychotherapy in Practice; and concurrent enrolment with, or successful completion of, PSY664 Clinical Psychology: Working with Children and Families and PSY662 Psychological Assessment: Theory and Method; Provisional Registration as a Psychologist with Psychology Board of Australia.

Exclusions: Students who have successfully completed PSY561 Clinical Psychology: Internal Practicum may not enrol in this unit for credit.

Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

7

**Clinical Psychology: Working with Adults (PSY565)**

Credit Points: 3

MURDOCH: S1-internal

This unit will consist of lectures and seminars covering the assessment, etiology, formulation and treatment of common psychological problems in adults. In addition to teaching a broad conceptual framework, commonly encountered specific disorders will be discussed with an emphasis on developing an understanding of the phenomena from psychological research and the unique experiences of the individual. Topics include anxiety, anger, depression, personality disorders, psychotic disorders, and eating disorders.

Lectures: 3 hours per week.

Prerequisites: Enrolment in MAppPsych, DPsych or MAppPsych/PhD.

**Clinical Psychology: Working with Children and Families (PSY664)**

Credit Points: 3

MURDOCH: S1-internal

Includes critical examination of theories and interventions applicable to psychological problems of childhood and adolescence. Students will gain knowledge and skills in diagnoses of, and applying interventions to, a range of child and adolescent presentations including anxiety, depression, elimination disorders, conduct and behaviour problems, suicide and self-harm. Cognitive, behavioural, and systemic interventions will be examined and principals from attachment and developmental theory will be incorporated. Professional and ethical issues specific to child and adolescent populations will also be examined.

Seminars/practicals: 3 hours per week.

Within the timetabled seminars, students are also exposed to role-plays of clinical skills where the same are demonstrated by the lecturer. Students are also presented with other practical exercises as part of the student presentations which include access to tape-recorded clinical interviews, access to some treatment and assessment technology, and access to case material. Students are also required to present in Powerpoint format on the aetiology, clinical presentation of, and treatment for child psychopathologies and students begin to practise their own interview skills in a role-play taped assignment.

Prerequisites: Enrolment in MAppPsych (Professional), MAppPsych (Clinical), DPsych (Clinical) or MAppPsych (Clinical)/PhD.

Exclusions: Students who have completed: PSY564 Clinical Psychology: Working with Children and Families may not enrol in this unit for credit.

**Clinical Psychology: Working with Health Problems (PSY502)**

Credit Points: 3

MURDOCH: S2-internal

This unit will introduce students to biopsychosocial models of health from a behavioural medicine perspective. Psychological influences on infectious disease, cancer, cardiovascular disease and chronic pain, and the psychological management of these problems, will be addressed.

Lectures: 3 hours per week.

Prerequisites: Enrolment in MAppPsych, DPsych or MAppPsych/PhD.

**Clinical Radiology (CHI420)**

Credit Points: 2

MURDOCH: T2-internal (quota of 80 places)

This unit completes the clinical radiology components of the course, covering topics such as neoplasm and other diseases of bone, joint and soft tissues.

Lectures: 2 hours per week; practical laboratories: 2 hours per week.

Self-directed out-of-class activity relating to radiographic lines of measurement.

Prerequisites: Successful completion of BSc(Chiropractic) or permission of the Academic Chair.

This unit is subject to quota. Quota is due to limited resources and space requirements. Preference will be given to students in the Bachelor of Chiropractic.

**Clinical Radiology (CHI440)***As for CHI420 except:*

Credit Points: 3

Not available this year

Lectures: 3 hours per week; Laboratory: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BCLinChiro), and successful completion of Years 1 to 3, or permission of the Unit Coordinator.

This unit is not subject to quota.

**Clinical Research in Exercise Physiology (EXS505)**

Credit Points: 3

MURDOCH: Y1-internal

Ongoing education and evidence based practice are critical features of all health professions. This unit will develop your clinical research skills of identifying, interpreting and applying the latest research and clinical guidelines to support your future practice.

Seminars: 2 hours

Prerequisites: Corequisite: EXS509 Exercise Physiology Practicum

**Coastal and Marine Management (ENV333)**

Credit Points: 3

MURDOCH: S2-internal (quota of 60 places)

This unit explores current coastal and marine management issues, policies and practices by focusing on the diverse habitats represented along the Australian coastline. Emphasis is placed on the use of spatial data and Geographical Information Systems (GIS) technology. Practicals include detection and monitoring of coastal change using remote sensing imagery, coastal resource inventories, habitat mapping and assessment of vulnerability in planning for coastal development.

Lectures: 2 hours per week; practical work: 3 hours per week for eight weeks.

Prerequisites: CHE144 Foundations of Chemistry/PEC144 Chemical Principles, ENV242/ENV213 Atmospheric Science, ENV244/ENV282 Oceanography and Marine Pollution and BIO384 Marine and Estuarine Biology/BIO377 Marine Ecology

Exclusions: Students who have successfully completed ENV381 Coastal and Marine Management may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to limited laboratory

space. Selection is based on academic achievement in ENV244 Oceanography and Marine Pollution.

### **Cold War 1945 - 1991: A Global History (HIS324)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit traces the political, social and strategic history of the Cold War through its post-1945 origins in the aftermath of WWII until its end in 1989-91 with the collapse of the Soviet Union. Critical events will be discussed including the origins and end of the Cold War in Europe and Asia; the policies of the two 'superpowers'; their confrontations in Berlin, Korea, Vietnam, Cuba; the roles of ideology and political leaders; the influence of the United Nations and European Union.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed HIS224 Rebirth of Europe: 1945-2001 may not enrol in this unit for credit. Students who have successfully completed HIS324 Rebirth of Europe: 1945-2001 may not enrol in this unit for credit.

### **Commercial Banking (BUS307)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This unit provides an overview of the functions and objectives of commercial banking operations. Topics include assets, liability and liquidity management; interest rate management and bank lending instruments. Derivative securities salient to financial intermediation, loan commitments and securitisation will also be examined.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS224/ BUS286 Corporate Finance OR  
BUS244/BUS288 Treasury Management

Exclusions: Students who have successfully completed BUS326 Commercial Banking may not enrol in this unit for credit.

### **Commercial Law (LLB332)**

Credit Points: 3

MURDOCH: S2-internal

The unit aims to introduce students to principal areas of commercial law common in legal practice. Topics covered include the law of sale of goods; bailment; the law of agency; and the provisions of the Australian Consumer Law regulating misleading and deceptive conduct, unconscionable conduct, unfair contract terms, unfair practices and consumer guarantees and the underlying policy. Relevant legislation is considered and interpreted in this unit.

Lectures: 4 hours per week over 6 weeks

Prerequisites: Successful completion of all Part 1 units in the LLB and completion of LLB260/LAW260 Contract Law.

Exclusions: Students who have successfully completed LAW332 Commercial Law may not enrol in this unit for credit

### **Communicating Global Issues (CMS304)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit articulates with a broad range of disciplines. It provides students with interdisciplinary perspectives on globalisation by addressing key socio-economic-cultural issues as identified by the United Nations such as human trafficking, HIV/AIDS in developing and developed countries, the economic effects of transnational corporations, which foreground the connections between gender and cultural politics. Importantly, it provides an opportunity for students to broaden their understanding of these issues and communicate their own responses.

Lectures: 1 hour per week; tutorials: 1 x 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC386 People and Globalisation cannot enrol in this unit.

### **Communication Management Research Project (MCM680)**

Credit Points: 6

MURDOCH: S1-internal, S2-internal, Y-internal

Under supervision students complete a research project or significant investigation of a topic approved by the Unit Coordinator.

Initial two to three compulsory seminars, followed by regular contact in person or otherwise with the Unit Coordinator during the project.

Prerequisites: Enrolment in Master of Communication Management. Students are normally expected to enrol in this unit once they have completed most other course requirements.

### **Communication Management: Professional Perspectives (MCM683)**

Credit Points: 6

Not available this year

This unit exposes students to leading research and case studies relevant to the media and communication industries. The focus is on enhancing the capacity of students to manage communication in different international and organisational business and cultural contexts. It examines the corporate and entrepreneurial challenges associated with communicating persuasively and with authority across multiple media platforms.

Taught in intensive mode with lectures and seminars, which may include evenings and weekends, followed by independent study. Final schedule will be confirmed at the start of the semester.

Prerequisites: Enrolment in the Master of Arts in Communication Management or Master of Communication Management.

### **Communication Research (MCC213)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit engages students in thinking critically about communication research. Students are introduced to quantitative and qualitative methods. Dedicated attention is given to researching the professional contexts of public relations. The unit aims to ensure students are able to develop research proposals, can differentiate between methods of data collection and analysis, and understand research ethics and management. Students should gain in-depth knowledge about conducting meaningful and purposeful

7

communication and public relations research.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have completed MSC110 Media Research Methods are not eligible to enrol in this unit.

### **Communication Skills for Postgraduate Study (TLC501)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

Designed for graduate coursework students from all schools from non-English Speaking Backgrounds (NESB), this unit will help students develop the communication skills necessary for research and study in an Australian academic context. In this unit, students will: build confidence in cross-cultural contexts; improve their academic writing; develop analytical and critical skills; understand the importance of academic integrity and the appropriate use of research sources in their work; enhance their ability to communicate and discuss complex ideas with others.

Communication Skills Seminars: 1 x 2 hours per week; writing practicum: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who are Native English speakers may not enrol in this unit.

Students are expected to attend at least 10 of both classes (10 x Communications Skills Seminar (CSS) and 10 x Writing Practicum (WP)) to be considered for a passing grade. Outside of the contact hours, students are expected to spend approximately 3 hours per week on self-directed study (including online activities to improve communication skills) and approximately 3 hours per week working towards assignments.

### **Community Development Dissertation (COD650)**

Credit Points: 12

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

A dissertation in the MA in Community Development requires a substantive investigation of a relevant Community Development topic under the supervision of a member of the academic staff. Students are required to report the results of their investigation in a dissertation of at most 20,000 words completed in accordance with University requirements.

Prerequisites: Enrolment in MA in Community Development.

Students cannot self-enrol in this unit.

### **Community Development Internship (COD508)**

Credit Points: 6

MURDOCH: S2-internal, S2-external

The Internship is a cooperative arrangement between University, students and non-government, government and business organisations involved in community work. Undertaking project work, policy development or research activities with collective guidance of a supervisor in an organisation and an academic supervisor. The project is supported by a series of workshops preparing students to carry out the internship and undertake academic reflection of work. Students are given support to find and negotiate a suitable internship, and are required to complete 160 placement hours.

Placement: 160 hours. On campus workshops (7 x 3 hours)

Written assignments, reading, viewing of practice examples and

reflection on writing for community development.

Prerequisites: COD545 Community Development Theory and Practice

### **Community Development Theory and Practice (COD545)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The unit begins by comparing and contrasting what different people say when they try and describe community development. To help in this regard it provides an introduction to the range of theoretical traditions that have shaped community development practice. The unit also turns itself to business of writing for a community audience. Students will be asked to begin the process of using skills learnt at university to assist community groups achieve some of their aspirations.

Six workshops of up to 3 hours per week. Access to lectures introducing students to community development. Audio recordings of lectures, PowerPoint presentations and online readings of online students.

Written assignments, reading, viewing of practice examples and reflection on writing for community development.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed COD125 Introduction to Community Development cannot enrol in this unit.

### **Community Engagement (Charles Darwin University SBI401) (OTH546)**

Credit Points: 3

MURDOCH: S2-external

This unit investigates the role of social partnerships and community engagement in the management of plant biosecurity, where 'the community' may include international, national, regional scales of engagement and government, industry and public sectors. Learning focuses on analysis of how social structures augment understanding and action for biosecurity management, and on the importance of consultation and authentic engagement for effective practice. This unit is offered by Charles Darwin University. Please refer to the Charles Darwin University unit catalogue <http://www.cdu.edu.au/>

There are no compulsory scheduled weekly activities for external students. All students are expected to work on the weekly schedule of learning activities provided in the online Learnline materials. All students are encouraged to post to online Discussion Board threads, to support their learning.

There are no compulsory scheduled weekly activities for external students. All students are expected to work on the weekly schedule of learning activities provided in the online Learnline materials. All students are encouraged to post to online Discussion Board threads, to support their learning.

Prerequisites: Enrolment in the Graduate Certificate or Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity or Master of Biosecurity.

### **Company Law (BSL305)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

The unit examines how Australian company law provides for the registration, operation and de-registration of companies as a form of business organisation. The legal relationships between participants in the company, between the company and the

regulators and between the company and outsiders are considered.

Lectures/workshops: 2 hours per week over 12 weeks.

This teaching pattern is applicable for offerings at Murdoch South Street.

Kaplan - SGP the teaching pattern will be 4 hours per fortnight over 12 weeks

Online learning activities.

Prerequisites: Successful completion of BUS165 Principles of Business Law / BSL165 Foundations of Business Law plus 24 credit points at Part II level.

Exclusions: Students enrolled in the Bachelor of Laws (LLB), OR who have successfully completed BUS328/BSL328 Company Law may not enrol in this unit for credit.

### **Comparative Contract Law (LLB349)**

Credit Points: 3

Not available this year

This course will introduce students to the law of the contract for the sale of goods in the United States, Australia, and under the United Nations Convention on Contracts for the International Sale of Goods. The course will also include an introduction to the law of documents of title, shipment of goods, and payment by letters of credit.

Lectures: 24 hours over 1 week

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB260/ LAW260 Contract Law

Exclusions: Students who have successfully completed LAW300 Special Topics in Law: Comparative Contract Law or LAW349 Comparative Contract Law may not enrol in this unit for credit.

### **Comparative Corporate Governance and International Operations (BUS284)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

Today's business leaders must implement systems that create value for customers. This unit generates greater value through new/enhanced internal processes and corporate governance best practices in an increasingly competitive, complex, connected world. In managing the procurement, transformation and distribution of goods, global supply-chain managers employ strategies and tactics to share inventory-related risks, whilst fulfilling customer demands. Issues relating to the ownership and security of transported goods and compliance to international regulations are also covered.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS176 Foundations of Management and Governance or BUS145 Principles of Management.

### **Comparative Environmental Policy and Law (ENV552)**

Credit Points: 3

MURDOCH: S1-internal

This unit entails advanced study into the principles underlying environmental governance structures and alternative models for environmental policy, and their application in practice. The legislative support for environmental policy will be explored from the international to the state level. Possible avenues for law reform will be examined.

Workshops: 3 x 1 day (8 Hours) sessions

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

Co-requisite: Good internet access for external students, a web camera and microphone for the online sessions.

### **Comparative Governance and Public Administration (SWM651)**

Credit Points: 3

MURDOCH: S2-internal

Governance of organisations is influenced by international trends and experiences. This unit will focus on international and comparative approaches to public administration and governance. The unit begins with a review of public administration and development. The second half of the unit will explore the following topics: public administration in multiple contexts; comparative Westminster-Whitehall challenges; regional administrative challenges; and comparative administration of resource-rich environments. The Unit concludes with a discussion of our emergent transnational administrative arena and global administrative law.

Lectures and tutorials/on-line discussions are held weekly. Students will then complete research assignments independently, in consultation with teaching staff. 24 hours total contact time.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of International Affairs or Master of International Affairs and Security.

### **Comparative Law (LLB325)**

Credit Points: 3

IMACERATA: S2G-internal (quota of 35 places)

This unit introduces students to the methodology of comparative law and to the basic structures and principles of selected major legal systems. It will concentrate on the main characteristics of the civil law system, as exemplified by German and French law. Students will be introduced to a comparative approach of studying law, enabling them to draw useful conclusions for their future legal career.

Lectures: 24 hours taught intensively in the winter break in Macerata.

Prerequisites: Successful completion of all Part I units in the LLB and completion of LLB259/LAW259 Constitutional Law.

Exclusions: Students who have successfully completed LAW3002 Special Topics in Law: Comparative Law OR LAW325 Comparative Law may not enrol in this unit for credit.

The S2G enrolment option for this unit is offered as part of the European Summer Program in Law, hosted at the University of Macerata, Italy. Enrolment in this program is by application to the program Director, and applications require payment of a deposit. Students enrolling in the program are responsible for their own airfares, accommodation and incidental expenses during the program. Contact the School of Law for further information.

This unit is subject to quota. Quota is due to limited resources and space requirements. Preference will be given to Law students in their final year.

### **Comparative Mammalian Biochemistry (VET272)**

Credit Points: 3

MURDOCH: S1-internal

Understanding molecular and metabolic biochemistry is central to the understanding of production, health, disease, and management of animals. The unit emphasises the conceptual understanding of DNA, gene expression and metabolism in the whole animal. Regulation of tissue metabolism and how it relates to animal

adaptation and the production of products for humans forms the central component of the unit. Digestion and absorption of nutrients by herbivores, omnivores and carnivores and their utilisation in the body are used to integrate the unit.

Lectures: 3 x 1 hour per week; Laboratories: 1 x 3 hours for 4 weeks (includes pre-lab); tutorials: 1 x 1 hour for 4 weeks.

Prerequisites: Enrolment in BSc (Veterinary Biology)/Doctor of Veterinary Medicine/BSc (Animal Science)/BAnimal Science/BSc (Animal Health); BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology.

Exclusions: Students who have completed BMS261 Human and Comparative Biochemistry or ANS251 Agricultural Biochemistry or VET241 Veterinary Biochemistry may not undertake this unit for credit.

### Comparative Theatre (EGL342)

Credit Points: 3

MURDOCH: S1-internal

This unit builds on the critical skills developed in the first and second year of study and uses an interdisciplinary approach to explore dramatic works from different historical periods and from a range of cultural contexts. Beginning with ritual and moving through Greek, Chinese, Japanese and finally Early Modern and Restoration theatre, students will encounter some of the significant dramatic works that have shaped contemporary international theatre practices.

Lecture 1 hr/wk; seminar 1.5 hr/wk.

Prerequisites: Nil.

### Competition Law (LLB310)

Credit Points: 3

MURDOCH: SP22-internal

Regulation of anticompetitive conduct by means of substantive prohibition in Pt IV of the Competition and Consumer Act 2010 (Cth) (CCA). Economic theory provides policy rationale for competition law hence a basic understanding of economics concepts such as markets, competition and market power is required. Main types of anticompetitive conduct included are cartel provisions, anticompetitive arrangements, misuse of market power and mergers. Examine the administrative role of the competition regulator, the ACCC, and the enforcement and procedure of competition law in Australia.

Lecture/seminar/workshop conducted on an intensive basis over 1 week in July (17th July to 20th July) 6 hours per day 9am to 12pm and then 1pm to 4pm.

Prerequisites: Completion of LAW260/ LLB260 Contract Law

### Complex Care (NUR305)

Credit Points: 4

MANDURAH: S1N-internal

Focuses on a range of complex nursing skills and clinical decision in the care of critically ill patient in order to support students in acute care settings such as emergency, high dependency, intensive care, coronary care, perioperative and oncology units. Addresses physiological and psychosocial responses and associated nursing care related to pathophysiological mechanisms of disease. Knowledge, scenarios, competencies and skills relevant to body systems being studied in order to determine best practice nursing care based on evidence and research will be included.

Lectures: 1 hour per week; laboratories: 2 hours per week.

Prerequisites: NUR203 Acute Care 1, NUR205 Acute Care 2,

NUR256 Medication Management for Nursing

Students will demonstrate knowledge and competencies developed within this unit in a structured clinical practice.

### Complexities of Health and Illness Across the Lifespan 1 (NUR231)

Credit Points: 3

MURDOCH: S1N-external, S2N-internal

MANDURAH: S1N-external, S2N-internal

This unit is the first of three that uses a systems-based approach to introduce students to health and illness in the human mind and body across the lifespan. The anatomy and physiology of the respiratory, cardiovascular and nervous systems will be further examined in relation to disease and alterations in homeostasis. The assessment, pathophysiology and pharmacological management of related disorders, along with pain and mental illness will be examined to provide students a theoretical base to apply nursing practice.

2 hour on campus assessment instruction.

Lectures: 1 hour per week pre-recorded and available through the web unit on the learning management system (LMS). Online interactive tutorials: 2 hours per week

Prerequisites: Enrolment in Bachelor of Nursing; completion of all Year 1 Nursing units.

Exclusions: Students who have successfully completed NUR256 may not enrol in this unit for credit.

### Complexities of Health and Illness Across the Lifespan 2 (NUR241)

Credit Points: 3

MURDOCH: S2N-internal

MANDURAH: S2N-internal

This unit examines the complexities of health and illness through 7 modules and explores the physiology and pathophysiology of the musculoskeletal system, gastrointestinal, abdominal organs, endocrine system, nutrition, renal system and reproductive and lymphatic systems. Pharmacological treatments and management of these systems will be investigated and incorporated into each module. This unit will provide students with the knowledge required to care for patients of all ages with complex health issues which can be applied in the case studies units.

2 hour on campus assessment instruction.

Lectures: 1 hour per week pre-recorded and available through the web unit on the learning management system (LMS). Online interactive tutorials: 2 hours per week.

Prerequisites: Enrolment in Bachelor of Nursing. Completion of all Year 1 nursing units, NUR231 Complex Health & Illness Across the Lifespan 1 or NUR256 Medication Management for Nursing

Exclusions: Students who have successfully completed NUR205 may not enrol in this unit for credit.

### Complexities of Health and Illness Across the Lifespan 3 (NUR352)

Credit Points: 3

Not available this year

This unit further examines the complexities of health and illness through 7 modules and explores the complex physiology and pathophysiology of fluid and electrolyte disorders, trauma and shock, altered immunity, cancer, burns, vascular and lymphatic disorders and haematological disorders. Building on knowledge



obtained in the first two complex health and illness units, this unit aims to develop and apply this knowledge to more complex systems and prepare the student for the final clinical stages of the nursing education programme.

Lectures: 1 hour per week; Tutorials: 2 hours per week

Prerequisites: Enrolment in Bachelor of Nursing; completion of all Year 1 and Year 2 Nursing units.

Co-requisite: NUR353 Case Based Inquiry Complex Care Perspectives

### **Computational Mathematics (MAS167)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

In this unit, students will learn to use the prominent mathematical computer package MATLAB to perform basic mathematical procedures and to solve problems in the general area of discrete mathematics. Topics include: recurrence relations, solving equations graphically and iteratively, computer arithmetic, basics of counting and discrete probability, matrices and linear transformations of the plane, propositional and predicate logic, mathematical induction, Boolean algebra and logic networks.

Lectures/tutorials/computer laboratories: 4 hours per week.

Prerequisites: MAS164 Fundamentals of Mathematics OR a final scaled score of 55% or more in WACE Mathematics 2C/2D OR a final scaled score of 50% or more in WACE Mathematics 3A/3B (or higher) OR equivalent.

### **Computer Based Measurement and Control (ENG502)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides both the understanding and skills necessary for designing and implementing a computer based measurement and control system. Emphasis is upon PC based data acquisition and control, but some exposure to remote I/O is also provided.

Although some theoretical concepts are addressed, emphasis is upon the development of practical skills and problem solving with LabVIEW being used as the primary vehicle.

Meetings/laboratories: by arrangement with the Unit Coordinator.

Prerequisites: Enrolment in the Master of Engineering or Graduate Diploma in Engineering.

Students are expected to have experience in at least one programming language and fundamental knowledge of electrical circuits and electronics.

### **Computer Graphics Principles and Programming (ICT289)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces the theory and techniques used in two and three dimensional computer graphics with an emphasis on applications development using the C programming language and OpenGL graphics library. Topics include: C and OpenGL graphics programming; geometric objects and their transformations; image-to-image transforms; animation; lighting, shading and surface characteristics; curves and surfaces; ray tracing.

Lectures: 1 x 2 hours per week plus optional clinics; laboratories: 1 x 2 hours per week.

Prerequisites: ICT167 Principles of Computer Science OR ICT104 Principles of Computer Science. Students are encouraged to also complete MAS162 Foundations of Discrete Mathematics AND

ICT170 Foundations of Computer Systems.

Exclusions: Students who have successfully completed ICT215 Computer Graphics Principles and Programming may not enrol in this unit for credit.

### **Computer Science Research Topic (ICT700)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The purpose of this unit is to introduce students to an advanced topic of current interest within the computer science research community. The exact topic studied in this unit varies as the topic will be taught by an active researcher in that area. Possible topics: parallel computing, object-oriented database design; digital image processing and analysis; artificial neural networks; software design and development; formal specification of software systems.

Seminars: 2 to 3 hours per week.

Prerequisites: Enrolment in the Doctor of Information Technology.

### **Computer Security (ICT287)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit provides a strong understanding of security principles, linking these with their applications amongst real-world systems. There is an applied focus in the unit and practical sessions will enable students to develop skills in how to test for and exploit security vulnerabilities and ultimately recommend mitigation strategies. General topics include operating system security models; security vulnerabilities; security assessment and analysis; basic cryptography; network security; and psychological and legal issues concerning security.

Lectures: 1 x 2 hours per week; laboratory: 1 x 2 hours per week.

Prerequisites: ICT171 Introduction to Server Environments and Architecture or enrolment in a postgraduate IT course.

Exclusions: Students who have successfully completed ICT339 Computer Security may not enrol in this unit for credit.

### **Conflict of Laws (LLB341)**

Credit Points: 3

Not available this year

Explores the effect of jurisdiction, choice of law and the enforcement and recognition of judgements in cases where the dispute crosses legal systems. This may occur in Australia in interstate disputes and in cases where one party is foreign. In essence this unit is concerned with resolving conflicts that arise because of the interaction between two different legal systems. As these rules vary between different legal systems, this knowledge is essential for lawyers operating in a globalised world.

Prerequisites: Successful completion of LLB358/LAW258 Australian Administrative Law; and LLB352/LAW252 Evidence.

Exclusions: Students who have successfully completed LAW341 Conflict of Laws may not enrol in this unit for credit.

### **Conservation Biology (BIO375)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides students with a biological understanding of the major issues and approaches involved in the conservation of flora and fauna. The unit emphasises Australian examples. Topics:

biodiversity, population biology and conservation, extinction and populations at risk, management of biota in conservation areas, translocations, ex-situ preservation and reintroduction of biota.

Lectures: 2 hours per week; workshops/seminars: 2 hours per week; 4 hours per week field trips.

There will be two lectures each week. Please note that these lectures will not be recorded and therefore, not available through the Lectopia (iLecture, MyUnits) system because if we do not gather frequently and interact as a group, the objective for teamwork and interaction will not be met. There are some times also allocated for guest lecturers, workshops, tutorials, student seminars or an excursion.

The unit provides a unique and outstanding opportunity to view Western Australia's premier conservation organisations. The unit has off-campus field trips to participate in conservation biology programs that may include marine conservation management at Penguin Island (Shoalwater Marine Park), behind the scenes tours of the WA State Herbarium, The WA Museum (collections of natural history), Kings Park and Botanical Gardens and Perth Zoo.

Prerequisites: ENV268/ENV241 Ecology

Exclusions: Students who have successfully completed BIO368 Conservation Biology may not enrol in this unit for credit.

As this is a 3 credit point unit, we expect you to spend on average ~14 hours per week for the total weeks of this teaching period (or 150 hours overall, or 50 hours per credit point) working on this unit. This includes the 4 hours of on campus activities scheduled in the timetable). We would expect that you go over the required reading material of the unit as part of this time commitment.

### Conservation Medicine (VET630)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit aims to provide students with an understanding of fundamental issues associated with conservation medicine. The unit will explore a range of issues related to the interdisciplinary integration of veterinary science and conservation biology. Topics include: wildlife management, habitat protection, indigenous knowledge and community participation, integrated conservation and development projects, sustainable development, the role of institutions involved with wildlife conservation, the role of veterinarians in wildlife conservation efforts and the role of private practitioners in community conservation projects.

Tutorials: 1 x 2 hours per week for internal students; online discussion for external students.

Online discussions for external students.

Prerequisites: Enrolment in Master of Veterinary Studies (Conservation Medicine) or Doctor of Veterinary Medical Sciences.

Enrolment in this unit in the internal mode is subject to approval by the Academic Chair.

### Conservation Medicine Field Placement/Project (VET639)

Credit Points: 3

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

This unit requires the application of research skills and the substantial investigation of a topic relevant to the student's main area of study. Students may elect to undertake a field placement with a conservation project in Australia or overseas as a component of this unit, in which case their assessment will involve undertaking a Project focusing on a topic related to the placement or Case Study Reports relating to the investigation and management of clinical cases.

Supervisory meetings for internal students and email liaison for external students.

Students may elect to undertake a field placement with a conservation project in Australia or overseas as a component of this unit. Placements are generally for one month. External students will have email liaison with their supervisors.

Prerequisites: Enrolment in Master of Veterinary Studies (Conservation Medicine) or Doctor of Veterinary Medical Science.

Placements will normally involve a supervisor from the placement institution and from Murdoch staff, and students will be assessed by both supervisors.

Enrolment in this unit in the internal mode is subject to approval by the Academic Chair.

### Conservation Medicine Field Placement/Project (VET639)

**As for VET639 except:**

Credit Points: 6

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Supervisory meetings for internal students and email liaison for external students.

Students may elect to undertake a field placement with a conservation project in Australia or overseas as a component of this unit. Placements are generally for one month. External students will have email liaison with their supervisor.

Prerequisites: Enrolment in Master of Veterinary Studies (Conservation Medicine) or Doctor of Veterinary Medical Science.

Placements will normally involve a supervisor from the placement institution and from Murdoch staff, and students will be assessed by both supervisors. Enrolment in this unit in the internal mode is subject to approval by the Academic Chair.

### Conservation Science (ENV638)

Credit Points: 3

Not available this year

This unit explores the systems and interactions that characterise the complex natural environments we manage today. Particular attention is given to quantitative and qualitative systems modelling, with practical examples from protected areas, biodiversity conservation, and natural resource management. Conservation planning and associated developments in spatial planning using geographic information systems for natural resource management are also covered. Human values regarding natural systems and their responses to management are other important elements of this unit.

Lectures: 1 hour per week; workshops 2.5 hours per week.

### Constitutional Law (LLB259)

Credit Points: 3

MURDOCH: S2-internal

This unit reviews the basic principles of constitutional law in Australia. This will be done through examining a range of topics including: the origin and development of state and federal constitutional law; the principles of federalism and separation of powers; specific grants of power to the Commonwealth legislature under section 51 of the Commonwealth Constitution; express and implied constitutional rights; and the process of constitutional change.

Lectures: 3 hours per week; tutorials: up to 10 hours per semester.

Prerequisites: Successful completion of all part 1 units in the LLB.

Exclusions: Students who have successfully completed LAW259 Constitutional Law may not enrol in this unit for credit.

### Consumer Behaviour (BUS273)

*As for BUS299 except:*

Credit Points: 4

DUBAI-ISC: TMD-internal

Studying how consumers behave is an important marketing activity in today's dynamic business and consumer environment. Consumers purchase products and services differently due to factors such as demographics, psychographics, culture and marketing. Consumer Behaviour investigates such differences and the subsequent decision-making. The unit also examines related ethical and social issues. Examples, discussions and exercises help illustrate the importance of consumer behaviour for business and non-profit organisations.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS169 Principles of Marketing or BUS183 Foundations of Marketing or TOU213 Tourism Marketing.

Exclusions: Students who have successfully completed BUS299 Consumer Behaviour may not enrol in this unit for credit.

### Consumer Behaviour (BUS299)

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

Studying how consumers behave is an important marketing activity in today's dynamic business and consumer environment. Consumers purchase products and services differently due to factors such as demographics, psychographics, culture and marketing. Consumer Behaviour investigates such differences and the subsequent decision-making. The unit also examines related ethical and social issues. Examples, discussions and exercises help illustrate the importance of consumer behaviour for business and non-profit organisations.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS169 Principles of Marketing or BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS273 Consumer Behaviour may not enrol in this unit for credit.

### Contemporary Advances in Economics: Theory and Applications - Honours (MBS597)

Credit Points: 3

MURDOCH: S1-internal

Economics assumes people are rational and self-interested decision makers. This unit introduces the cutting-edge microeconomic field known as experimental or behavioural economics and behavioural game theory; this research presents a more nuanced picture of 'economic man'. The implications of these new approaches for a number of real-world problems and issues that have been inadequately addressed by traditional economics are considered, such as addiction, cooperation and the valuation of non-marketed goods including environmental protection and safety.

The unit will be run as a reading unit with students studying selected topics independently.

Prerequisites: Enrolment in Economics (BBus(Hons)) with Honours.

Exclusions: Students who have completed BUS463 Contemporary Advances in Economics: Theory and Applications - Honours may not enrol in this unit for credit.

### Contemporary Asia (AST281)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides an introduction to the histories, societies and cultures of our Asian region from World War 2 to the present. Students analyse the major challenges faced by Asian nations in the post-colonial transition, and study the strategies adopted to transform these societies into what is today the world's most dynamic region. This unit provides a solid grounding for later more specialised study of particular countries, or the application of particular disciplines to the study of this important region.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: AST102 Asian Centuries or Unit Coordinator's approval.

This unit comprises the second-stage core unit for Asian Studies majors: as such, it requires the background knowledge provided by AST102.

### Contemporary Culture (CMS102)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to foundational concepts, theories and approaches to the study of culture. It is premised on understanding the relationship between power, identity and the role of the media in the production and dissemination of culture. We consider how culture and knowledge are produced, communicated, mediated and how they construct 'self-hood'. We also discuss cultural expression in everyday life and popular culture. You will have opportunities to think critically about these issues via mixed modes of assessment.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC103 Contemporary Culture may not enrol in this unit.

### Contemporary Fiction Writing (EGL343)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Students will produce creative writing in response to various art works and to works of contemporary fiction, in order to build skills in visualising and writing scenes, details, images in fictional narratives. Various art works and contemporary fiction will be used to better understand visualisation, perspective and design. Students will develop further their understanding of the use of sensory detail and imagery in order to develop images, scenes, characters and narratives.

Seminar/workshops: 1 x 2.5 hours

Prerequisites: EGL122 Writing and Creativity

Exclusions: Students who have successfully completed EGL269 Contemporary Creative Writing: Image and Scene may not enrol in this unit for credit.

**Contemporary Financial Accounting (BUS356)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This is an advanced accounting unit and therefore critically examines and evaluates a number of specific issues selected from the prevailing set of accounting standards promulgated in Australia and legally mandated for use by companies. These range from share issues, asset impairment and intangibles consolidations, tax-effect accounting, extractive industries, leases, financial instruments and public sector accounting. The unit focuses on definitions, concepts, principles and theories as well as accounting practices in the Australian context.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS285/BUS217 Technology and Accounting Processes

Exclusions: Students who have successfully completed BUS256 Contemporary Financial Accounting may not enrol in this unit for credit.

**Contemporary Industry Trends and Challenges (MBS592)**

Credit Points: 3

Not available this year

In this unit, students taking the Graduate Certificate in Business will work with a variety of theories, methods, and cases to examine specific topics in leadership and management or other related areas that are required by clients.

Up to 24 contact hours plus personal study up to a total of 150 hours.

The unit coordinator will develop, in collaboration with the School Learning and Teaching Committee or the School Associate Dean Learning and Teaching, the unit content to meet the requirements of the client while adhering to all Murdoch University and School of Management and Governance policies.

Prerequisites: Nil.

**Contemporary Issues in International Affairs (SWM623)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines key ideas, debates, and issues in contemporary international affairs. The unit commences by exploring the various theories that have shaped understandings and practices of global politics, and the structures and processes of contemporary international affairs. From this basis, the unit then turns to understanding some of today's most pressing world issues, including: empires; globalisation; global governance; shifting concepts of security and cooperation; peace and conflict; human rights; forced migration; terrorism; gender; humanitarian intervention; and environmental issues.

Not available.

Prerequisites: Enrolment in a graduate-level course.

**Contract Law (LLB260)**

Credit Points: 6

MURDOCH: S1-internal

This unit provides an introduction to the law of contract in Australia. The unit will deal with the requirement of consideration for enforceable contracts, their formation by offer and acceptance, the necessity if any for certain forms for them, their terms and the interpretation of those terms, vitiation of otherwise enforceable contracts for mistakes, misrepresentation and illegality, and termination of contracts by performance, acceptance of breach and frustration. The issue of damages will also be examined in this unit.

Lectures: 4 hours per week; tutorials: 1 hour per week commencing week 3.

Prerequisites: Successful completion of all Part 1 units in the LLB.

Exclusions: Students who have completed LAW260 Contract may not enrol in this unit for credit.

Graduate students may seek approval to enrol in this unit from the Unit Coordinator provided they are concurrently enrolled in both LLB120 Legal Writing for Lawyers and BJU100 Australian Legal System.

**Control System Investigation (ENG668)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines different methodologies for evaluation of control system performance. Large-scale process case studies are identified, modelled and controlled using different types of conventional and advanced controllers. Suitable performance indicators/measures including statistical process control charts are then identified and implemented into the case studies and used to evaluate the performances of the control systems especially in relation to process economics.

Lectures/tutorials/meetings/laboratories: By arrangement with the Unit Coordinator.

Prerequisites: ENG525 Instrumentation and Control I; ENG508 Instrumentation and Control II; ENG563 Processes, Simulation and Instrumentation.

**Control Systems and Process Dynamics (ENG299)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides the foundations in the dynamics, modelling and control of process-oriented systems. Topics: concepts of process control, system components; elements of dynamic analysis, Laplace Transform; process models, transfer functions; low order, second order and time delay systems; stability; feedback control; PID controller, tuning. Simulink and MATLAB are used extensively in problem solving and simulations while LabVIEW is used to perform measurement/control in the instrumentation and control laboratory.

Lectures: 1 x 2 hours per week; computer workshop: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: PEC152/PEN152 Principles of Physics; MAS161 Calculus and Matrix Algebra or corequisite MAS208 Mathematical Modelling; ENG109 Computing for Scientists and Engineers; ENG192 Energy, Mass and Flow or CHE144 Foundations of Chemistry.

**Corporate Accounting (MBS678)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This is an advanced unit in financial accounting which focuses on issues that arise because a business is incorporated. The topics include those that have a high degree of specific relevance to large public companies and include share issues, tax-effect accounting, consolidations, asset revaluation and intangibles, and accounting for foreign currency. These topics will be discussed in the context of the law, International and Australian Accounting Standards and generally accepted accounting practices.

2.5 hour seminar per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: MBS513/MBS539 Accounting for Managers

Exclusions: Students who have completed MBS632 Corporate Accounting may not enrol in this unit for credit.

**Corporate Finance (BUS224)***As for BUS286 except:*

Credit Points: 4

DUBAI-ISC: TMD-internal

The main objective of this unit is to develop a basic knowledge of finance, especially in relation to the investment decisions for the corporate financial manager. Major topics: the evaluation and selection of investment projects; introduction to the capital asset pricing model; dividend policy and capital structure; and working capital management.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS140 Principles of Finance and Banking and MAS180 Introduction to Statistics or BUS130 Foundational Mathematics for Business

Exclusions: Students who have successfully completed BUS224 Corporate Finance or BUS286 Corporate Finance may not enrol in this unit for credit.

Trimester offerings for this unit at Singapore (SGP1) are taught in intensive mode.

**Corporate Finance (BUS286)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit builds on BUS130, and shows students how quantitative analysis facilitates personal and corporate financial decisions by focusing on financial mathematics to value debt and equity securities. The main objective of this unit is to further develop the student's knowledge of finance, especially in relation to the investment decisions for the corporate financial manager. Major topics include the evaluation and selection of investment projects; introduction to the capital asset pricing model; dividend policy and capital structure; and working capital management.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS140 Principles of Finance and Banking and MAS180 Introduction to Statistics, or BUS130 Foundational Mathematics for Business

Exclusions: Students who have completed BUS224 Corporate Finance may not enrol in this unit for credit.

**Corporations Law (LLB452)**

Credit Points: 3

MURDOCH: S1-internal

This unit will consider the major forms of private business association in Australia, focusing on the company. The unit will consider how companies are formed, financed and terminated. The classes will chiefly pertain to the case law and to the relevant statutes- the Corporations Act (Cth) and its interpretation.

Lectures: 3 hours per week; tutorials/workshops: up to 10 hours per semester.

Prerequisites: Successful completion of LEG120 (prior to 2012)/LAW120 Research and Writing/LLB120 Legal Writing for Lawyers; LEG150 (prior to 2011)/LAW150/BJU100 Australian Legal System; LLB152/LAW152 Torts; LLB130/LAW130 Criminal Law and Procedure; LLB260/LAW260 Contract; LLB259/LAW259 Constitutional Law; LAW253 Property or both LLB253 Property Law A and LLB254 Property Law B.

Exclusions: Students who have completed LAW352/LAW452 Corporations Law may not enrol in this unit for credit.

**Corrections (CRM202)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The aim of this unit is to provide students with an understanding of the issues in corrections from sentencing to the reintegration of prisoners into the community. It involves an understanding of the role corrections plays in providing key information in the sentencing process and procedures. The unit concentrates on corrections, covering issues such as the effects of imprisonment, management of prisoners, deaths in custody, the design of prisons, managing prisons, privatisation of prisons and community corrections.

Lecture: 2 hours per week

Students will be required to role play a Community Corrections Officer and interview an offender for the preparation of a Pre-sentence Report and will be required to role play on offender for a fellow student who will be writing such a report.

Students will be offered the opportunity of visiting a prison.

Prerequisites: CRM100 Introduction to Criminology

Exclusions: Students who have completed CRM220/CRM320/LAW320 Sentencing and Penology cannot enrol in this unit.

**Corruption, Anti-corruption and its Discontents (SWM648)**

Credit Points: 3

MURDOCH: S2-internal

This course is divided into three main sections. The first section of this course unpacks the definition of corruption, and how corruption is and might be measured. The second section develops analysis skills, examining different ways of analysing a corruption 'problem' through case studies. The final section addresses anti-corruption theories of change, and the politics of anti-corruption measures. Students will analyse anti-corruption reports and learn to write policy recommendations, developing problem solving measures for complex real world examples.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.



Prerequisites: Nil.

### **Counselling Adults (CSL583)**

Credit Points: 3

MURDOCH: S2-internal

Students will be introduced to theories and intervention approaches which explain and promote health and well-being in adults. Common psychological issues that are encountered in counselling, such as depression and anxiety will be covered. A skills-based approach to dealing with significant adult concerns, including relationship complexities will also be covered.

Seminars: 3 hours per week.

Prerequisites: Must be enrolled in the Graduate Certificate in Counselling, Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies or Master of Counselling. Other students wanting to study this unit can be interviewed by the Counselling Academic Chair.

### **Counselling Children and Adolescents (CSL578)**

Credit Points: 3

MURDOCH: S2-internal

Working with children and adolescents means engaging explicitly within a web of relationships. In this unit students are encouraged to become familiar with the experiences of children, adolescents and their families. Students expand their capacity to create effective counselling relationships with individuals, dyads and family groups. Students will become familiar with commonly encountered issues and gain applied knowledge of theories and models that underpin counselling with children and adolescents. Attention will be given to social context and human diversity.

Lectures/ Seminars: 3 hours per week.

Prerequisites: Enrolment in the Graduate Certificate in Counselling, Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies or Master of Counselling. Other students wanting to study this unit can be interviewed by the Unit Coordinator for consideration by the Counselling Academic Chair.

### **Counselling Placement and Supervision Group 1 (CSL679)**

Credit Points: 6

MURDOCH: DE7-placement (quota of 12 places), S1L-placement (quota of 12 places)

In this unit students begin working with clients at Caladenia Counselling, Murdoch University's community counselling clinic located on the Murdoch campus. Students work with child, adolescent and adult clients with the support of individual and group supervision. Close attention is paid to developing and maintaining counselling relationships, case conceptualisation, engagement in supervision, and professional practice.

Students are required to be rostered at Caladenia Clinic for 12 hours per week. In addition, there is 2 hours of group supervision weekly and 1 hour of individual supervision fortnightly.

Prerequisites: Completion of all units comprising Graduate Diploma and enrolment in Master of Counselling or by permission of the Counselling Academic Chair.

Students are required to provide a current Police Clearance as well as Working with Children Check prior to enrolling in this clinical placement unit.

Students in this unit undertake counselling work with vulnerable members of the public: all students will be assessed through staff review, and in some cases interview, for their readiness to undertake this unit. Students may be asked to undertake extra

preparation.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to limited resources for supervising students during practicum. Selection is based on academic performance in core Counselling units as well as other criteria indicating readiness for practice.

### **Counselling Placement and Supervision Group 2 (CSL621)**

Credit Points: 6

MURDOCH: DE7-placement (quota of 18 places), S1L-placement (quota of 18 places)

Students complete their second placement in an appropriate counselling environment, working under the supervision of a practising counsellor. Students participate in group supervision on campus, providing a link between training and supervision within the University and work and supervision on placement. Counselling relationships, supervisory relationships, case conceptualisation and intervention are key elements in this unit. Understanding issues relating to ethical conduct, indigenous and CALD perspectives and professional practice are developed through group supervision.

36 days of placement in consultation with the Placement Coordinator, plus up to 2 hours per week group supervision and occasional seminars.

Prerequisites: Enrolled in the Master of Counselling and have completed CSL679 Counselling Practicum I and all units comprising the Graduate Diploma of Counselling; or by permission of the Counselling Academic Chair.

Students are required to provide a current Police Clearance as well as Working with Children Check prior to enrolling in this clinical placement unit.

This unit has a quota which may result in some students not being able to enrol in the unit in the semester they choose. This may mean studying part-time may be required.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to limited resources for supervising students during practicum. Selection is based on academic performance in core Counselling units as well as other criteria indicating readiness for practice.

### **Counselling Research Project (CSL620)**

Credit Points: 9

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This unit is designed for those students wishing complete a more substantial research project. The project will be conducted under the supervision of a Masters of Counselling academic staff member. The research project can be developed from the proposal submitted in SHP632, or from your own original research question. The report will be written up in a peer reviewed journal format of your choice. At the end of the course it will be submitted to the journal for potential publication.

Contact time to be discussed with Supervisor.

Prerequisites: Enrolment in Master of Counselling. Completion of all the units in the Graduate Diploma in Counselling, including completion of SHP632 Applied Health Research Methods: From Research to Practice.

**Counselling Research Project (CSL677)**

Credit Points: 6

MURDOCH: Y-internal

Understanding research underlies many skills essential for a Counsellor. In particular the ability to reflect on, and critically analyse complex information, both in practice and from reading relevant research. Understanding research supports the Counsellor to make informed decisions in a considered and ethical way. This unit develops skills by further developing student research ideas and proposals, conducting research and writing up individual research projects. This applied unit will assist with development and appreciation of issues, limitations and pragmatics of research.

Lectures/Seminars: 3 hours per week.

Prerequisites: Enrolment in Master of Counselling. Completion of all the units in the Graduate Diploma in Counselling, including completion of SHP632 Applied Health Research Methods: From Research to Practice.

Exclusions: Students who have successfully completed PSY677 Counselling: Case Study may not enrol in this unit for credit.

**Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum (EDN353)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit was developed in response to the Australian Curriculum, Early Years Learning Framework and AITSL National Standards that require students to demonstrate a broad knowledge of Aboriginal and Torres Strait Islander Country, Cultures and Peoples and to have a graduate-level understanding of strategies for teaching Aboriginal and Torres Strait Islander students. Students need to read critically, reflect on a range of matters, including teaching strategies and curricular issues, and demonstrate and understand the protocols involved in working with Indigenous peoples.

Lectures: 1 hour per week; workshops: 2 hour per week.

Each student's program will show evidence of a step-by-step research trail that will underpin the final program.

1. Personal Approach to Teaching and Rationale for including Indigenous perspectives;
  2. Researching an Indigenous person of note (either historical or contemporary);
  3. Researching the history of the country on which students live (or work), as well as cultural practices salient to the Indigenous peoples of this country;
- Feedback will be provided during online or face-to-face workshops.

Prerequisites: Enrolment in an initial teacher education course.

Exclusions: Students who have successfully completed EDN224 Social Justice may not enrol in this unit for credit.

**Country, Nature and Identity: Indigenous Sustainability (AIS206)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores the intersections between sustainability, Indigenous community aspirations and cultural-natural resources, and our collective responsibility to better understand and manage Australian landscapes and communities. It encourages students to explore their own assumptions about big ideas like 'nature', 'civilisation' and 'development', in light of Australian (and often international) notions of 'country', which include a cultural commitment to reciprocity, stewardship and the co-evolution of people and their environments.

Lectures/workshops: 1 x 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have completed AIS301 Country, Nature and Identity: Indigenous Sustainability or AIS201 Indigenous Sustainability may not enrol in this unit for credit.

**Creating and Managing Effective Learning Environments (EDN358)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on ways of enhancing the learning of all students by examining the cognitive, emotional, social and behavioural factors which impact on the ecology of inclusive learning environments. It considers whole school, community, classroom and individual teaching and learning adjustments to meet diverse student needs. The unit includes lectures run by invited speakers (community agents, mental health professionals, and in-service teachers) allowing students to reflect upon the complexities involved in creating and managing effective learning environments in real settings.

Lectures: 1 hour per week; workshops: 2 hours per week,

Prerequisites: Co-enrolment in, or successful completion of, EDN221 Learning and Teaching or EDU245 Learning and Assessment Processes or equivalent. Students without the prerequisite should consult the Unit Coordinator.

Exclusions: Students who have successfully completed EDN422 Creating Effective Learning Environments cannot take this unit for credit.

**Creating History (HIS300)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This History 'capstone' unit allows students to participate in a major supervised research project and reflect on their practice of history. Students will have the opportunity to apply discipline-specific knowledge and skills gained throughout their degree. The unit will serve as a gateway to further study in History (including Honours and postgraduate work) and consolidate learning applicable to future employment.

Seminars: 1 x 2 hours per week.

Prerequisites: HIS200 History, Society and Culture OR HIS200 The Empire Strikes Back: Imperialism and Colonialism in Modern History.

**Creating Value for Organisations (MBS628)**

Credit Points: 3

Not available this year

Businesses create value by supplying products/services that meet customer demand. Using a series of articles, videos and cases, this unit introduces advanced techniques to: analyse the building blocks of value creation across organisations; design a strategic business model, leveraging the power of various stakeholders through the principles of co-creation; mainstream innovation across the organisation while managing risk; and improve decision-making to drive organisational performance.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

**Creative Radio (RAD301)**

Credit Points: 3

MURDOCH: S2-internal

Exposes students to non-traditional radio forms such as radio drama, comedy, quiz shows and 'live studio audience' radio which can act as springboards for other media. In fields like radio art, experimental music radio and avant-garde sound/radio, both the practice itself and scholarly study can be developed. These alternative radio forms offer creative insight into what radio could be, expanding understanding of mainstream radio practice and giving the opportunity to produce radio in a broader creative paradigm.

Lectures: 1 hour per week; workshops: 1.5 hours per week.

Prerequisites: RAD105 Introduction to Radio or EGL122 Writing and Creativity.

**Creative Ways to Work with Community (COD302)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Increasingly groups are signalling that community involvement in planning, management and government is something they would like to see carried out more often. This unit introduces students to some practical participatory methods as well as questioning what may be required for individuals and organisations to develop and discover a 'voice'. It also asks them to begin to develop some skills in reflective practice in regard to their own processes when working in such a realm.

10 x 3 hour workshops for on-campus students. Audio recordings of workshops, digital reports on workshop activities, powerpoint presentations and on-line readings of on-line students.

Written Assignments, reading, viewing of practice examples and reflection on working as a member of a group.

Prerequisites: Nil.

**Creativity and Innovation (BRD209)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit will help students to develop knowledge and skills for finding creative solutions to problems and for successful innovation. Students will learn the benefits of adopting and applying diverse perspectives and problem-solving tools, especially within interdisciplinary teams, to find better ideas and products. Examples of creative and innovative thinking will be taken from a broad spectrum of disciplines, including science, engineering, the environment, media, ethics, business and indigenous culture.

Lectures: 1 hour; workshops: 2 hours.

Prerequisites: Nil.

This is a University-Wide Breadth Unit.

**Credit and Lending Decisions (BUS308)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

The focus of this unit is on the key functions of the banking industry with particular emphasis on the management of lending and credit assessment. Topics include an overview of credit risk, the credit decision, management of problem loans and credit policy formulation and implementation. In addition, current credit techniques including credit scoring models and value at risk (VAR)

will be introduced.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGPPrerequisites: BUS224/ BUS286 Corporate Finance OR  
BUS244/BUS288 Treasury ManagementExclusions: Students who have successfully completed BUS337  
Credit and Lending Decisions may not enrol in this unit for credit.**Creed and Sacraments in Catholic Schools (EDN232)**

Credit Points: 3

MURDOCH: SB1-internal

This unit is designed for students considering teaching in Catholic schools in Western Australia. The unit explores the core beliefs of the Catholic tradition expressed in 'creeds of faith' and the place of the religious celebrations known as 'sacraments' in the life of the Catholic community. Knowledge and understanding of 'creed' and 'sacraments' will be linked to the teaching of the Religious Education Program (K-12) used in Catholic schools in Western Australia.

Lecture/workshops: 10 x 4 hours daily over two weeks in early January, with a study-break on the Wednesday of each week.

Prerequisites: Nil.

This is one of three Catholic Studies Units currently offered at Murdoch University that assist Education students meet the tertiary study requirements of accreditation to teach in a Catholic school.

**Crime and Punishment Since 1700 (HIS204)**

Credit Points: 3

Not available this year

Focusing on Western society from the eighteenth century to the present, this unit explores crime and punishment from an historical perspective. Crime is examined in relation to social changes, protest, class and gender, along with the evolution of punishment and detection. Material will be drawn from the United States, Britain and Australia, with topics ranging from archaic game laws to modern serial killers.

Lectures/workshops: 1 x 2 hours per week.

Prerequisites: Nil.

**Crime Scene Investigation I (BI0596)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides instruction on the crime scene processing of volume crime types. Principles of scene documentation (contemporaneous notes, photography and mapping), evidence preservation and seizure, with 'hands on' practical mock scene exercises are used to demonstrate how a crime scene is processed to maximise evidence recovery. Training in the legal frameworks and legislation relevant to crime scene investigation are provided.

Lectures/ workshops: 30 hours over 7 teaching weeks; practical work or equivalent: 25 hrs over 9 weeks seminar/workshop revision session: 5hrs

Prerequisites: Enrolment in the Graduate Certificate in Forensic Science (Professional Practice) or Master of Forensic Science (Professional Practice).



**Crime Scene Investigation II (BI0685)**

Credit Points: 3

MURDOCH: S1-internal

The unit provides instruction on the processing of complex crime scenes. The focus will be on applying core forensic techniques and forensic specialisms (pathology, entomology and palynology) to the processing of a body recovery crime scene (field based). The body recovery crime scene notes and expert witness report will be the mainstay of moot court testimony. Training will also be provided in expert witness report writing and presentation, the role of intelligent policing, cognitive bias and quality management.

Lecture/workshops: 36hrs over 9 weeks; Practicals, field trips including mock crime scene and moot court exercise or equivalent: 24 hours per semester.

Prerequisites: Enrolment in the Master in Forensic Science (Professional Practice).

**Crime Science (CRM301)**

Credit Points: 3

MURDOCH: U-internal

This unit focuses on detecting, investigating and preventing crime. It outlines approaches used to identify crime hotspots and how patterns of crime have changed over time. Using local examples as illustrations, students are introduced to risk-based clustering and map subtraction techniques to pinpoint areas where crime has increased or decreased. The unit takes a multidisciplinary approach to problem solving with a focus on the role of criminology, forensic science and information technology in the identification and prevention of crime.

Lecture-Seminar 24 hours taught intensively in summer

Prerequisites: Nil.

**Crime through the Ages (BRD205)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit considers interdisciplinary and historical influences on our understanding of crime and how this has impacted our criminal justice system. Students learn that explanations of crime are dependent on many factors, including some entirely independent of crime. It's an interpersonal, social, political, economic and philosophical issue. Crime and history are the underlay through which students learn the interaction of different perspectives and begin to understand those who do not learn from history are doomed to repeat the mistakes of the past.

Workshops: 1 hour per week, commencing from week 2

Online Activity - includes lecture and independent learning. (1 hour per week)

Prerequisites: Nil.

This is a University-Wide Breadth Unit.

**Criminal Behaviour (CRM203)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to the psychosocial basis of criminal behaviour. The introductory lectures are theoretical in nature and take students through the underpinning rationale associated with this disciplinary perspective of crime. Once the basics have been covered, students are taken through specific examples of criminal behaviour, such as violent crime, sexual crimes against adults, and drug related crime. Each specific topic relates the particular form of

criminal behaviour back to psychosocial explanations.

Lectures: 2 hours per week

Prerequisites: CRM100 Introduction to Criminology. Students are able to enrol in CRM306 Advanced Criminology concurrently.

Exclusions: Students who have completed CRM210 Criminal Behaviour may not enrol in this unit for credit.

Students enrolled in the LLB/BA in Criminology combined degree enrol into this unit for credit towards the Criminology major.

**Criminal Law and Procedure (LLB130)**

Credit Points: 3

MURDOCH: S2-internal

Examines the principles of criminal responsibility in Western Australia (primarily through the interpretation of the Criminal Code (WA)), aspects of the law relating to criminal procedure in Western Australia, and the social context within which criminal law operates. Homicide, nonfatal offences against the person and offences against property are covered. Defences such as mistake, insanity, intoxication, provocation and self defence are examined. Criminal Procedure topics include pre-trial procedures, trial procedures and sentencing.

Lectures: 3 hours per week; tutorials/workshops: up to 10 hours per semester.

Prerequisites: Enrolment in the LLB. Successful completion of LEG150 (prior to 2012) or LAW150 or BJU100 Australian Legal System OR concurrent enrolment in BJU100 Australian Legal System.

Exclusions: Students who have completed LAW130 Criminal Law and Procedure may not enrol in this unit for credit.

**Criminological Research Methods (CRM120)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is designed to provide students with the skills necessary to be successful in their criminology studies. The unit focuses on social science methodologies and research ethics associated with the study of crime and criminal behaviour. Students will learn how to interpret quantitative results and how to use these new skills effectively in their future studies

Lectures: 1 hour per week (commencing week 1); tutorials: 1 hour per week commencing Week 3

1 hour of online learning commencing week 1

Prerequisites: Nil.

Exclusions: Students may not enrol in this unit for credit toward the LLB or Juris Doctor (pre-2014).

Students who have completed LEG120 Legal Research may not enrol in this unit for credit.

**Critical and Creative Thinking (PHL131)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Achieving a high level of critical and creative thinking is one of the most important goals of a university education. This unit aims to enhance the thinking and communication skills that are fundamental to all of your academic studies. Employers in most professions and industries regard these abilities as essential. Effective thinking demands rigorous analysis, imagination and insight. In this unit you will develop and practise these skills and learn how to structure a successful, systematically reasoned essay.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Critical and Ethical Issues in Communication (MCM501)**

Credit Points: 3

MURDOCH: S1-internal

Media and communication professionals operate in an environment governed by laws, regulations and professional codes of practice. Practitioners need to understand and apply them. They also need to make critical judgements in an ethical way, in context and often under pressure. This unit investigates some key issues that demand understanding, analysis and application of regulations and ethical decision making.

Seminars/workshops: delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

### **Critical Approaches to Development (SWM511)**

Credit Points: 3

MURDOCH: S1-internal

The many competing visions of development are a challenge to professionals working in this area. This unit offers a high-level overview of the key theoretical debates that guide these visions, across different institutional and national settings. Students will be asked to consider fundamental questions about aid and development and to apply what they learn to both practical and theoretical written tasks.

Seminars are delivered intensively (24 hours contact time) and draw on an enquiry-based mode of learning in class. Students will complete research assignments independently, in consultation with teaching staff. Seminars typically engage the main themes of the readings for that specific week. Students are expected to reflect on the questions that arise from the readings as a focus for the discussion. As a general rule of thumb, students prepare for seminars by using these questions as a means to focus on the key issues laid out by the respective authors and how these a) link back to the specific topics covered in the lectures and b) how they more broadly expand our understandings about the nature of development.

Prerequisites: Enrolment in Graduate Certificate in Policy and Development, Master of Development Studies, Master of Health Administration, Policy and Leadership, Master of Health Policy and Leadership, Master of International Affairs and Security, Master of International Affairs or Master of Public Policy and Management.

Exclusions: Students who have successfully completed SSH511 Overseas Aid and Development or STP604 Overseas Aid and International Development may not enrol in this unit for credit.

### **Critical Games, Play and Design (GAD232)**

Credit Points: 3

MURDOCH: S2-internal

This unit will critically explore game design and playful digital content production in contemporary culture. Areas of focus will include: games (console, computer, mobile, casual and multiplayer), user-created content and playful media produsage (e.g. Indie game development, modding, web and app development). These practices will be examined from a number of perspectives, including game studies, critical design and new media theory. Students will learn key concepts emerging from these

fields, and how to apply them.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who successfully completed MCC232 Video Game Studies may not enrol in this unit.

### **Critical Metaphysics (PHL205)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Metaphysics is the philosophical discipline concerned with the ultimate 'nature' of reality, the ontological status of the components of the real world, and the necessary conditions for knowledge of such things. Our investigations will focus on the metaphysical positions of Descartes, Spinoza, Leibniz, Locke, Hume and Kant. Key issues include: space and time, subject and object, cause and effect, core aspects of the mind, and the relative merits of Rationalist versus Empiricist approaches to these issues.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Internal students complete two 45-minute quizzes, one in mid-term, one at end of term; external students complete a final exam.

Prerequisites: Nil.

Exclusions: Students who have successfully completed PHL218 Critical Metaphysics cannot enrol in this unit for credit.

### **Critical Perspectives in Early Childhood Education (EDN672)**

Credit Points: 3

MURDOCH: S2-external (closed pending cancellation of the offering)

This unit offers participants the opportunity to engage critically with early childhood research and theoretical perspectives. Participants will develop a critical framework for planning, implementing and evaluating early childhood education programs for their own practice and/or for extended research programs. Participants will examine and critically reflect on models of the learner and curriculum contexts in early education.

External: No attendance required. On-campus meetings usually available on request.

Online discussion and resources will be provided for each topic. Students will provide formative feedback to their peers.

External: No attendance required. On-campus meetings usually available on request.

Prerequisites: Nil.

### **Critical Policy Analysis and Teachers' Work (EDU658)**

Credit Points: 3

Not available this year

This unit examines the impact of educational policy on the lives and work of teachers and how it affects their choices in the areas of curriculum and pedagogy and their overall sense of ownership of their work. The unit will introduce students to critical policy analysis for the purpose of investigating educational policies relevant to their own professional development and interests in schools, tertiary institutions or vocational education and training.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

### Critical Topics in Communication and Media Studies (CMS306)

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

CMS306 is designed as a final year research project for Communication and Media Studies students. The first part of the unit introduces students to a range of critical theories and concepts, as well as research tools and methods that are applicable to the study of communication and media. In the second part of the unit, these theories and tools are applied to a contemporary topic or task, working in small teams to a brief provided by an external industry partner.

Lectures: 1 hour/week for 6 weeks; Workshops 2 hours/week for 12 weeks.

Prerequisites: Successful completion of 9 points of the major (Communication and Media Studies) at Part II.

### CRM Internships (WIL) (CRM310)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

In this unit, students can find their own internship placement throughout the year and then seek approval for enrolment from the unit coordinator. On occasion the Law School promotes internship opportunities. Internships must be unpaid and run for a maximum of 130 office hours. Work pattern and work tasks are negotiated between the intern and employer and approved by the unit coordinator. Students will acquire practical skills, and skills in communication, problem solving and teamwork

\* On average the internship runs for approximately 130 hrs (app 16 days) and there are 20 hours dedicated to self-study & the other activities noted in the bullet point above;

\* The internship can carry across an entire Murdoch University study schedule or be completed as a short intensive programme - this will be determined in consultation with the criminal justice service provider and the unit coordinator

Prerequisites: LEG100 Law, Justice and Social Policy; LEG120 Legal Research or CRM120 Criminological Legal Research; CRM100 Introduction to Criminology; BAR200 Developing Research Skills and Methods or BSC201 Psychology: Measurement, Design and Analysis; CRM201 Policing & Crime Prevention; CRM203 Criminal Behaviour.

Enrolment in this unit requires a minimum of 2.0 GPA and approval by the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

### Crop and Pasture Science (ANS207)

Credit Points: 3

MURDOCH: S2-internal

This unit introduces students to the principles of crop and pasture science. It develops an understanding of the basic principles of plant and crop growth by drawing on plant physiology, genetics, biochemistry, nitrogen fixation and plant nutrition and on crop physiology. The phenology and physiology of major crop and pasture species is examined. Major global farming systems are introduced and used to introduce students to the major challenges associated with producing crops and pastures in different environments.

Lectures: The equivalent of 2 hours per week. Practical work and field excursions: equivalent to 3 hours per week.

Lectures and practical will be scheduled in intensive blocks during non-teaching weeks of Semester 2 (Week 5 and 9).

Prerequisites: CHE140 Fundamentals of Chemistry

### Crop Protection and Plant Biosecurity (ANS208)

Credit Points: 3

MURDOCH: S2-internal

Pests and diseases substantially reduce crop yields and quality; and weeds compete with crops and pastures. A range of organisms can destroy or downgrade harvested crops and food. This unit will examine these concerns, not only in terms of their interactions, but how they might be managed in a productive farming system and through the value chain. It will examine the principles and practices of biosecurity aimed at good agricultural practice and preventing the introduction of new pests and pathogens.

Lectures: 2 hours per week. Practical exercises: equivalent to 3 hours per week.

Prerequisites: ANS105 Agricultural Science and Food Production

### Cross-Cultural Consumer Behaviour (MBS575)

Credit Points: 3

MURDOCH: AU2-internal

Provides the fundamental skills students need to understand how and why consumers from different countries and cultural backgrounds make decisions regarding the goods and services they purchase. The global economy is affected by consumer behaviour culture, lifestyle and group behaviours. Research case studies will demonstrate relationships between consumer decisions, behaviours and the social environment.

The main mode of learning is facilitated through combined lectures/seminars for 4 weeks, 2 Saturday workshops and 2 recorded lecture sessions.

Self-directed and guided research regarding consumer learning experiences in selected cultural environments around the globe.

Prerequisites: Nil.

### Cultural and Communications Policy (SWM647)

Credit Points: 3

MURDOCH: S2-internal

Students will work with a variety of theories, methods, and cases to examine cultural and communications policy. These will include political economy, textual analysis, archival research, participant observation, and discourse analysis. There will be a discussion of cultural and communications policy at various levels: global, regional, national, urban, and rural. Examples will come from Latin America, the UK, and the US, but students will be able to draw on their own foci as well.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

May include modelling a new policy; creating a web portal on the subject; interviewing experts; translating scholarship from student's own language into English; listening to podcasts; other activities as directed.

Prerequisites: Enrolment in a graduate-level course.

### **Cultural and Linguistic Diversity in the Classroom (EDN405)**

Credit Points: 3

Not available this year

Prerequisites: Enrolment in an initial teacher education course.

### **Cultural Competency Within and Across Organisations (MBS596)**

Credit Points: 3

Not available this year

This unit investigates organisational culture. It considers how it can help and has helped organisations anticipate and prepare for change, adapt to shocks and build capabilities. It challenges participants to apply critical reasoning in managing diversity. It explains how stakeholders shape the cultural conventions in organisations - language, systems, conceptual devices and rituals. It explores how indigenous culture, community culture and national culture all contribute to the development of ethical standards, product and service offerings and behavioural norms in organisations.

Up to 24 contact hours plus personal study up to a total of 150 hours.

Prerequisites: Nil.

### **Cultural Tourism Interpretation (TOU230)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Interpretation and representation through different 'voices' is a focus of this study. The concepts of authenticity and construction of place in tourism are examined. Heritage, history and tradition, religion, the arts (music, dance, festivals, sculpture, painting, handicrafts, gastronomy), special events, and museum activities as well as cross cultural situations are included in the discussion of cultural tourism.

2.5 hours workshop per week.

Group work and Field Trips and Blended Learning

Prerequisites: Nil.

Exclusions: TOU210 Cultural Tourism Interpretation (4pts)

### **Culture and Religion in Asia (AST352)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is an introduction to the major religions of Asia including Hinduism, Islam, Buddhism and Christianity, as well as to the evolution of Confucian-based belief, from a sociological/anthropological and cultural perspective. It concentrates on the dynamic relationship between cultures and religions in contemporary Asia by examining the relevance of religion to people's everyday life including issues such as politics and terrorism.

Seminar/Workshop: 1 x 3 hours per week which includes up to 50 minutes of film.

Students are expected to watch 2 x 45 minute pre-recorded lectures via LMS prior to attending the seminar.

Prerequisites: Nil.

### **Culture, Communities and Sustainability in Asia (AST650)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Asia is a region of extraordinary diversity and rapid change. This unit combines approaches from anthropology, sociology and ecology to explore the relationship between culture and sustainability for communities in the Asian region. The effects of globalisation, development and conservation policies will be considered with special attention to indigenous minorities and rural societies. The impacts of changing cultural values and social relations through the green revolution, population pressure, urbanisation, industrialisation, deforestation, overfishing and tourism will be addressed.

Workshops: 1 x 3 hours per week; on-line lectures and discussion forum.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) course.

If not enrolled in a graduate-level (AQF level 8 or AQF level 9) course, then permission of the Unit Coordinator is required.

### **Culture, Diversity and Crime (CRM307)**

Credit Points: 3

MURDOCH: S1-internal

This unit explores issues related to Indigenous Australians and CALD groups in the criminal justice system. It includes consideration of the trends and patterns of offending and victimisation of Aboriginal Australians, people from CALD backgrounds. It also examines the experiences of these people in the criminal justice system and how the system responds to their victimisation and offending.

Lectures two hours per week

Prerequisites: LEG100 Law, Justice and Social Policy

### **Current Debates in Education (EDN669)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines current debates and controversies in the field of education. Topics are drawn from a wide range of sub-disciplines and include the major debates that are discussed by educational researchers and practitioners as well as the lay public. Participants will gain a solid, research-based understanding of the complexities of current debates in education and will be well prepared to explain and analyse these issues with stakeholders.

Seminars and workshops delivered after 4.30pm: 8 meetings of 3 hours each spaced through the semester. Students will complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

### **Curriculum Development for Practitioners (EDN588)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
DUBAI-ISC: TJD-internal

This unit deals with curriculum development from the point of view of the person developing, modifying or improving a teaching-learning program. It is of value not just to professional classroom teachers, but to anyone involved in the practicalities of

education and training in an educational institution, a corporation or public service organisation. The unit content covers the basic processes of program development (i.e. design, production, implementation and evaluation) at the local level and also examines wider curriculum issues.

Workshops: 2.5 hours

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator.

Exclusions: Students who have successfully completed EDU488/688 Curriculum Development may not enrol in this unit for credit

### Cyber Forensics (ICT248)

Credit Points: 4

Not available this year

Principles of cyber forensics: identification and recovery of digital evidence from computers. This evidence is used in examinations by law enforcement and other investigative bodies, legal and accounting professions, and information managers. Focus: vulnerabilities of information management systems; identification, recovery, analysis and presentation of digital evidence; and trends in cyber forensics. Introduction to the processes of basic evidence identification, recovery and analysis through forensic examination project. Students analyse a cyber crime and report on the evidence.

Lectures/workshops: 1 x 2 hours per week.

Possibility of guest lectures from industry practitioners.

Prerequisites: ICT102 Introduction to Computer Science OR ICT105 Introduction to Information Technology OR ICT107 Principles of Information Systems OR ICT108 Introduction to the Internet and Multimedia OR ICT159 Foundations of Programming.

Exclusions: Students who completed ICT228 Special Topics in Information Technology: Cyber-Forensics may not enrol in this unit for credit.

### Cyber Forensics and Information Technology (ICT378)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit combines three separate disciplines: technology, law and forensic analysis that combined form the paradigm of cyber forensics. The unit offers an insight into the cyber forensic environment and looks at the preservation, location, selection, validation, and presentation stages of cyber forensic examination. Students undertake theoretical study as well as analysis of a crime scene simulation to combine theoretical and experiential knowledge.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: ICT171 Introduction to Server Environments and Architecture or enrolment in a postgraduate IT course.

### Data Analytics (ICT513)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit considers select topics from experimental design and survey methods, descriptive statistics, hypothesis testing and modelling for continuous and categorical variables. Throughout, advanced statistical software will play an important role in data visualisation and analysis. Students will consider topics through the presentation of real research problems from a number of disciplines, gaining valuable experience in the application of

statistics in a variety of contexts.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week; workshops: 3 x 2 hours per week (weeks 1 - 3).

Prerequisites: Prior studies equivalent to MAS183 Statistical Data Analysis and enrolment in a Graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed MAS223 Applied Statistics require permission of the Academic Chair to enrol.

### Data Resources Management (ICT616)

Credit Points: 3

MURDOCH: S2-internal

This unit looks at the information available in corporate databases as a significant strategic resource. It focuses on those issues involved in managing and strategically exploiting data, including discovery of trends and patterns and new knowledge creation. Topics include: the nature of the data resource and the intelligent enterprise; data distribution and architectures; data administration; planning, design, and exploitation of the data resource; knowledge management, and issues of data ownership and security.

Lectures/workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level IT course.

### Data Science Group Project (ICT625)

Credit Points: 6

MURDOCH: S2-internal

Students will work in teams to undertake a real-world data science project, applying skills and knowledge developed in their degree. Teams will analyse project requirements, evaluate and justify design decisions, and produce a substantial artefact. Project management and communication with clients and other stakeholders will be emphasised. Projects can be initiated from industry needs, University needs, or proposed by the student in consultation with a discipline academic. The project culminates with a public presentation of the project deliverables.

Workshops: 3 hours per week.

Prerequisites: ICT508 Information Technology Project Management and ICT602 Advanced Data Analysis, and a minimum of 24 points.

### Data Structures and Abstractions (ICT209)

Credit Points: 4

DUBAI-ISC: TJD-internal, TMD-internal

This unit introduces Abstract Data Structures (ADS) and the algorithms that operate upon them. ADS such as arrays, lists, two-dimensional structures, trees and graphs are studied along with various representations. ADS that utilise these structures are also covered. Complexity analysis is used throughout the unit. The programming language currently used in this unit is C++.

Lectures: 2 hours per week; tutorials: 2 hours per week; plus optional clinics.

Prerequisites: ICT167 Principles of Computer Science OR ICT104 Principles of Computer Science.

### Data Structures and Abstractions (ICT283)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces Abstract Data Structures (ADS) and associated algorithms. ADS such as arrays, vectors, lists, two-dimensional

structures, trees and graphs are studied along with various representations. ADS that utilise these structures are also covered. Complexity analysis is used throughout the unit. The programming language currently used in this unit is C++.

Lectures: 1 x 2 hours per week plus optional clinics; laboratories: 1 x 2 hours per week.

Prerequisites: ICT167/ICT104 Principles of Computer Science. Students are encouraged to also complete MAS162 Foundations of Discrete Mathematics AND ICT170 Foundations of Computer Systems.

Exclusions: Students who have successfully completed ICT209 Data Structures and Abstractions cannot enrol in this unit for credit.

### **Data, Metrics, Reporting and Analytics (MBS603)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

In this unit, students are introduced to common HR data, metrics and analytics that guide decision making in order to support strategic organisational goals. The first part of the unit focuses on understanding the role of data in decision-making; the second part of the unit focuses on analysis techniques and data interpretation pitfalls, and the final part of the unit focuses on communication of results to enact change.

SGPThis Unit is planned as 8 workshops of 3 hours duration each. The sessions will be clustered as three sessions before first university break; two sessions before the second university break; and finally three sessions before the study break.

As this is a relatively new and very broad topic, students will be required to extensively look for data across scholarly articles, consultants' websites, and software vendors.

Prerequisites: Nil.

### **Databases (ICT218)**

Credit Points: 4

DUBAI-ISC: TMD-internal, TSD-internal

This unit provides an introduction to database design, implementation and management. Topics: data modelling, the relational model, SQL, logical and physical database design, database application design, transaction management, concurrency, recovery, security, database architectures and database administration. The theory material is complemented by practical work using common database management systems.

Lectures: 2 hours per week; tutorials: 1 hour per week; plus an optional clinic.

Prerequisites: ICT102 Introduction to Computer Science or ICT159 Foundations of Programming or ICT170 Foundations of Computer Systems or ICT107 Principles of Information Systems.

### **Databases (ICT285)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

This unit provides an introduction to database design, implementation and management. Topics: data modelling, the relational model, SQL, logical and physical database design, database application design, transaction management, concurrency, recovery, security, database architectures and database administration. The theory material is complemented by practical work using common database management systems.

Lectures: 1 x 2 hours per week; computer laboratories: 1 hour per week; optional clinics: 1 hour per week.

Prerequisites: ICT102 Introduction to Computer Science or ICT159 Foundations of Programming or ICT170 Foundations of Computer Systems.

Exclusions: Students who have successfully completed ICT218 Databases cannot enrol in this unit for credit.

### **Death and the Afterlife in Ancient Egypt and Mesopotamia (REL203)**

Credit Points: 3

Not available this year

Beliefs about death and the afterlife function in human societies as mechanisms for defining cultural understandings of the meaning of human existence. In ancient Egypt and Mesopotamia, fundamentally different beliefs about these matters resulted in dramatically different rituals (elaborate tombs and mummification versus simple burials in the ground) and indicate very different attitudes toward the significance and meaning of human life. This unit will examine the beliefs and practices surrounding death from these ancient cultures.

Lectures: 1 hour; tutorials: 1 hour.

Prerequisites: Nil.

### **Decentralised and Industrial Water Treatment (ENG602)**

Credit Points: 3

MURDOCH: S1-internal

Water treatment for potable purposes has been driven predominantly by the need of large communities for drinking water. This has led to highly centralised treatment and distribution systems. This unit introduces the student to the design, characteristics, and function of treatment operations, implementation strategies, operation and maintenance approaches, and specific challenges associated with providing water of appropriate quality for decentralised users; such as mines, farms, remote communities, industrial and advanced manufacturing processes, and natural environment maintenance.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Successful completion of ENG510 Physicochemical Water Treatment Operations and ENG515 Biological Water Treatment Operations (or their equivalent with permission from the unit coordinator).

### **Decision Making in Clinical Imaging (CHI586)**

Credit Points: 2

MURDOCH: T1-internal

This unit provides an opportunity for students to practically apply their current training in clinical imaging -- modality selection, interpretation, report writing and application of outcomes to the clinical situation -- through the use of clinical decision making models. By utilising case-based scenarios the student will be introduced to a wide spectrum of available diagnostic imaging modalities and will be encouraged to expand his or her understanding of applications for clinical imaging in preparation for clinical practice.

Lectures: 2 hours per week; laboratories/rounds: 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and the successful completion of Years 1 to 4 OR by special application to the Unit Coordinator.

**Decision Neuroscience Neuromarketing (MBS690)**

Credit Points: 3

Not available this year

Covers general aspects of cognitive neuroscience focusing on how biological and brain processes can explain decision-making choices. Explores systematically how emotions influence consumer decisions; how somatosensory brain systems affect our preferences and economic choices; how imagination influences our product and service perceptions. How memory processes encode information, and how logical sequential information can influence certain purchasing decisions. Branding and self-image is investigated to understand how the brain organises self-identity and congruence with material and social achievements.

The unit will be delivered in 6 whole day workshops during the semester (lectures, seminars, and practical activities included in each workshop). Each workshop is 6 hours and it includes active participation in case studies, discussions of journal papers, practical activities and formal lecture input from the unit coordinator. Each workshop has a detailed plan of activities and students will be informed each week before the workshops. The dates of the workshops will be announced at the beginning of each semester and are included in the unit guide.

Students participate in hands on research experience, using biometric and neuroscience research tools. Application of theories using personality instruments, learning styles and attitudes are also included in the program of application and research training. Students are able to do individual reflective reports, write research papers or do projects on a topic of their choice. All students will spend 2-3 hours of first-hand experience with other researchers at the Audience Labs exploring a number of biometric and neuroscientific research methods of acquiring research data. If possible, external guest speakers will be invited to bring a range of portable neuroscientific tools for demonstration and to discuss specialised research topics.

Prerequisites: Nil.

This unit is subject to quota. Quota is due to limited laboratory space. No admission requirements; students will be accepted until the quota is full.

**Democracy and Political Change (POL228)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Historically, capitalism and democracy went hand in hand in Europe and North America. Expectations of a similar occurrence in Asia have risen due to socio-economic transformations, but what has transpired? Now in the Middle East there are pressures for regime change under rather different economic circumstances. What then are the connections between economic development and democracy? Do markets require democracy, or are capitalists more disposed to authoritarianism? What are the social forces pushing for more political freedoms?

Weekly 1 hour lecture, 1.5 hour workshop.

Prerequisites: Nil.

Exclusions: Students who have successfully completed POL257 Authoritarianism and Democracy or POL357 Democracy and Political Change may not enrol in this unit for credit.

**Democracy in Doubt (POL331)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

As many people in non-Western countries struggle to achieve democracy, many in the West seem uninterested or unwilling to participate in democratic processes. The political system often taken to be the best one possible seems to instil limited enthusiasm amongst those who have it. What's happened? Did we get democracy wrong in theory or was it in practice? Do we need new ways of thinking about democracy or do the problems lie in the ways that we practise democracy?

Weekly 1.5 hour lecture and 1 hour tutorial.

Prerequisites: Nil.

**Derivative Securities (BUS325)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit is designed to provide students with: a detailed understanding of the features and uses of the major derivative instruments; an understanding of how the major derivative instruments are valued and an introduction to the features of exotic derivative instruments. Alternatives to the Black-Scholes models, credit risk derivatives and advanced models in interest rate derivatives will also be examined. Work will be highly theoretical and mathematical, and a high standard is expected.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS244 Treasury Management or BUS288 Treasury Management

**Derivative Securities (BUS333)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit is designed to provide students with a detailed understanding of the features and uses of the major derivative instruments, an understanding of how the major derivative instruments are valued and an introduction to the features of exotic derivative instruments. Alternatives to the Black-Scholes models, credit risk derivatives and advanced models in interest rate derivatives will also be examined.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS244/ BUS288 Treasury Management or BUS224/BUS286 Corporate Finance

Exclusions: Students who have successfully completed BUS325 Derivative Securities may not enrol in this unit for credit.

**Dermatology (VET628)**

Credit Points: 3

Not available this year

This unit aims to assist clinicians develop diagnostic skills in veterinary dermatology using a practical, problem-oriented approach and provides updates on therapeutic developments for common skin problems. The unit presents different perspectives on the diagnosis of conditions such as chronic pruritus, refractory eosinophilic granuloma and recurrent bacterial pyoderma, and offers a review of management options of common skin conditions such as atopic dermatitis, dermatophytosis, and eosinophilic granuloma complex. Case-based learning using images, cytology

and histopathology supplements comprehensive notes.

Prerequisites: Enrolment in Master of Veterinary Studies (Small Animal Practice) (M1022), the Graduate Certificate in Veterinary Studies in Small Animal Practice (C1074), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### **Desalination Technology and Modelling (ENG601)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an in-depth, engineering introduction to the current practice of desalination as well as to emerging technologies in the field. Reverse osmosis (RO) is the primary focus as it is now and will be for the foreseeable future the largest means of desalinating water globally. In the RO discussion the student will become acquainted with the design and operation of modern RO installations. In addition, distillation and alternative membrane desalination technologies will be covered.

Lectures: 2 hours per week; workshops 1 hour per week.

Prerequisites: Successful completion of ENG507 Environmental Water Chemistry and ENG510 Physicochemical Water Treatment Operations (or their equivalent with permission from the unit coordinator).

7

### **Design Concepts in Engineering (BEN150)**

Credit Points: 3

MURDOCH: S1-internal

Topics covered in this unit will include engineering design, sustainability, climate change, ethics, social justice and engineers' engagement with the community. The material will be delivered using historical episodes to illustrate concepts such as response to needs, learning from the mistakes of others, unintended consequences, and the relative merits of soft and hard path technologies. Case studies will be used to illustrate current practices by organisations that address the need to engage local communities in large scale engineering projects.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENG141 Design Concepts in Science and Engineering may not enrol in this unit for credit.

### **Design Project (ENG550)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This unit involves the complete design and implementation of a substantial project of industrial relevance. It is designed to make use of all of the skills and understanding of the student from previous studies and this course.

By arrangement with Supervisor.

Prerequisites: Enrolment in the Master of Engineering or Graduate Diploma in Engineering.

### **Designing Early Childhood Learning Environments (EDN538)**

Credit Points: 3

MURDOCH: S2-external

This unit examines how the design of indoor and outdoor experiences and environments can support early years' learning (children aged birth- five years). Case studies focused on the professional skills and knowledge necessary for the provision of nurturing, inclusive and sustainable environments are reviewed. Administrative and legislative requirements of workplace practice are examined.

To complete Assignment Two, students will need to locate an early years Long Day-care Centre to undertake fieldwork. To complete Assignment Three, students will need to participate in an online group assignment. Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator.

Prior to undertaking fieldwork at an Early Years Long Day-care Centre, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before fieldwork is arranged.

### **Destination Management (TOU323)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit examines the management of the tourism system with a focus on 'destinations'. It can include, for example, trends and globalisation, business development (addressing design, planning marketing, litigation issues), destination management (including strategic planning) and sectorial management trends and issues (including tour operations, the travel sector, accommodation sector and attractions). Project management may be used to guide study of this unit in the context of group projects.

6 deliveries of 4 hour duration

Site visits to destinations under study

Prerequisites: TOU201 Sustainable Tourism or TOU221 Sustainable Tourism; AND completion of at least 20 points of Part II level units. Highly recommended: BUS176 Foundations of Management and Governance.

Exclusions: Students who have successfully completed TOU303 Destination Management may not enrol in this unit for credit.

### **Developing High Performance Work Systems (MBS602)**

Credit Points: 3

MURDOCH: T2-internal, T2-external

HPWS is used to describe a management strategy whereby a set of complementary human resource management and work practices are implemented with the expectation that they will deliver improved organisational performance. In this module the theory and empirical evidence of HPWS is explored, analysed and critically evaluated. Participants will acquire an understanding of the design principles underpinning the key elements of an HPWS. Additionally, participants will explore the impact of national and



organisational culture in facilitating HPWS.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### Developing Research Skills and Methods (BAR200)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces students to research principles and methodologies across disciplines in the Bachelor of Arts. It provides skills in data gathering, analysis and interpretation for knowledge creation. The unit also encourages interdisciplinary approaches by addressing methodologies from other disciplines. The unit guides students in the design of their own research projects, laying the foundation for practical application of research in BAR300. In its emphasis on problem solving, BAR200 aims to enhance students' critical capacity in research to increase graduate employability.

Lectures: 1 hour per week (for entire semester); tutorials: 1 x 1.5 hours per week.

A compulsory Conference Day for presenting Research Posters. External students who are unable to attend the Conference Day will present their posters online.

Prerequisites: BAR100 Academic Learning Skills or BJU100 Australian Legal System or enrolment in B1328 Bachelor of Education/Bachelor of Arts and BED100 Ideas in Action.

### Developing Strategic Intelligence (MBS594)

Credit Points: 3

Not available this year

This unit centres on the development of strategic thinking skills so that students can reflect creatively on organisational and business strategy. Strategic intelligence is built by a focus on understanding the language of strategy, and learning how information from the internal and external environments can assist in developing and communicating a vision, contributes to scenario planning and strategy cultivation, and, ultimately, lead to innovation in services development and delivery.

Up to 24 contact hours plus personal study up to a total of 150 hours.

Prerequisites: Nil.

### Development and Sustainability (SWM628)

Credit Points: 3

MURDOCH: W-internal

A growing population and changing patterns of consumption place pressure on social and ecological systems. But the concept of sustainable development offers ways to think about relationships between the economy, environment and society, and to identify new ways of being that will improve wellbeing by reducing poverty, improving social equity and protecting natural systems. Planetary boundaries and the UN's Sustainable Development Goals frame discussions about critical issues - climate change, food security, and impacts of tourism - for achieving a sustainable future.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time).

Prerequisites: Enrolment in Master of Development Studies, Master of Public Policy and Management, Master of International Affairs, Master of International Affairs and Security, Master of Health Administration, Policy and Leadership, Master of Health Policy and Leadership, Master of Business Administration Professional Practice,

Master of Food Security or Master of Wildlife Health and Conservation.

Exclusions: Students who have successfully completed SSH628 Development and Sustainability may not enrol in this unit for credit.

### Diagnosis I (CHI335)

Credit Points: 3

MURDOCH: S1-internal

This unit enhances knowledge in visceral pathophysiology and diagnosis. It introduces case-based discussion to develop fundamental skills required for decision-making and clinical reasoning. Clinical practical component includes review of physical examination skills with pathology correlation.

Lectures: 1 x 2 hours per week; laboratories: 1 x 1 hour per week

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of CHI255 Human Anatomy I, CHI293 (or CHI283) Physical Examination, and either BMS264 Biomedical Physiology OR BMS206 Biomedical Physiology.

### Diagnosis II (CHI336)

Credit Points: 3

MURDOCH: S2-internal

This unit builds on Diagnosis I and is divided into clinical sciences, history taking, general diagnosis, and a neurology diagnosis section. It develops a principles approach to clinical pathology and neurology from a cellular level to organ failure while utilising a case-study approach with diagnostic workshops to illustrate the concepts presented. Presentations of selected musculoskeletal and visceral disorders are integrated; while practical lab times are be used to further develop skills in specific diagnostic tools and interpretation.

Lectures: 2 hours per week; practical: 2 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2, CHI335 Diagnosis I.

### Diagnosis III (CHI337)

Credit Points: 3

MURDOCH: S2-internal

This unit builds on prior diagnosis units with emphasis on the development of skills to distinguish underlying causes associated with musculo-skeletal disorders including more serious visceral and other medical problems. Emphasis is on case histories, physical and special examination findings. Small group/tutorial discussion and resolution of clinical presentations will emphasise orthopaedic and neurological evaluation of the patient and development of a working diagnosis. A radiology stream pertaining to osseous and articular trauma will be incorporated.

Lectures: 3 hours per week; Workshop: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2, CHI391 Processes in Human Disease and CHI335 Diagnosis I.

**Diagnostic Genomics (BMS327)**

Credit Points: 3

MURDOCH: S2-internal (quota of 25 places)

Diagnostic genomics is a rapidly emerging discipline within clinical pathology focused on disease diagnosis and prognosis through examination of the human genome. This includes prenatal genetic testing, genetic disease diagnosis and carrier testing, pharmacogenetic testing, cancer diagnosis and prognosis, and screening for unknown genetic mutations. Current platforms and tools used in molecular diagnostic laboratories to identify genetic mutations and gene variants such as next generation DNA sequencing will be covered in this unit, with a focus on interpretation and reporting.

Lectures: 3 x 1 hour lectures per week.

Laboratories: 3 hours per week

Computer Laboratories: 3 x 3 hour computer laboratory sessions for the analysis of Next Generation Sequencing data and microarray data (in place of laboratory sessions for those weeks)

Prerequisites: BIO282 Molecular Biology

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

**Diagnostic Imaging (VET671)**

Credit Points: 3

MURDOCH: S1-external (quota of 30 places)

Diagnostic Imaging is central to most clinical case management. The unit will provide access to current literature and practical case-based sessions to further develop students' understanding and confidence in imaging. The focus will be on the major body systems, including the thorax, abdomen, and musculoskeletal regions. A review of radiographic physics and digital radiographic technology will be included. Additionally, students will be introduced to the indications and limitations of advanced diagnostic imaging, including computed tomography and magnetic resonance imaging.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022), the Postgraduate Certificate in Veterinary Studies in Small Animal Practice (C1074), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

Exclusions: Students who have successfully completed VET520 Diagnostic Imaging may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

**Different Englishes and Interpretations of Language, Culture and Identity (EDU604)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TSD-internal

This unit explores issues that have particular significance in a world where there are more speakers of English as a second or additional language than there are speakers of English as a first language. The unit examines how the emergence of different Englishes both impacts and reflects language, culture and identity. It views 'Englishes' within the context of interglobal connectedness. Questions around whose English, what English and why English are examined critically.

Internal: workshops: 1 x 3 hours per week.

External: No attendance required.

Internal: workshops: 1 x 3 hours per week.

External: No attendance required.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

Exclusions: Students who successfully completed EDU619 Different Englishes and Interpretations of Language, Culture and Identity cannot enrol in this unit for credit.

**Differential Diagnosis (CHI456)**

Credit Points: 3

Not available this year

This unit stresses clinical decision-making. It builds on earlier diagnosis units, further developing students' diagnostic, and patient management skills. Focusing on the differential diagnosis of the patient's presenting complaint; consideration is given to the differential diagnosis of symptoms suggesting dysfunction of the musculoskeletal system and how to distinguish those from the more serious visceral or medical presentations. The unit also includes how to manage the patient appropriately including referral where necessary.

Lecture: 3 hours per week; Practical: 3 hours per week.

Incorporates undergraduate research stream.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BClinChiro), and successful completion of Years 1 to 3, or permission of the Unit Coordinator.

**Digital Business (MBS667)**

Credit Points: 3

Not available this year

This unit equips students with hands-on website development skills and an appreciation of the digital marketplace. Students will demonstrate financial and market justification for a digital marketplace presence. The unit centres on business websites but includes discussion on the social marketing, location marketing and telematics fields. Ethical issues including culture and permission marketing are also addressed. Programming experience is not necessary but students without prior knowledge of business and marketing and an understanding of advertising will find this unit challenging.

Lectures/seminars/workshops: 3 hours per week.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: BUS305 Digital Business

**Digital Forensics (SOU681)**

Credit Points: 3

MURDOCH: S1-internal

Digital forensics has a variety of applications, beginning with the recovery of digital media from computers, recording devices, cameras and phones. Digital forensics techniques allow the authentication and enhancement of media files, such as photographs or recordings, and videos in order to produce a report that may be used as evidence. It also encompasses mobile phones whose data can be recovered to provide location and other information.

Lectures/seminars: 1 hour/week; Workshops: 1.5 hour/week.

There may be an opportunity to visit specialist facilities dealing with digital forensics as part of the unit.

Prerequisites: Enrolment in a graduate-level course.

**Digital Imaging (PHO101)**

Credit Points: 3

MURDOCH: S2-internal

In this studio workshop the student is introduced to the basic concepts of digital imaging processes. The emphasis is on the integration of digital technologies into photographic practices. The subject opens up for consideration practices for extending image production and visualisation. The student is introduced to the practice and methods of production of photographers who utilise a variety of digital technologies in their work. This course provides students with a foundation understanding of digital photo processes and techniques.

Lectures: 1 hour; workshops: 1.5 hours.

Prerequisites: Nil.

**Digital Newsgathering and Journalism (JOU104)**

Credit Points: 3

MURDOCH: S2-internal

This unit examines the professional role of journalists and introduces students to the skills of news gathering and reporting. Students will also be introduced to a range of issues that have a bearing on the professional practice of journalism, including media law, ethics and the culture of news.

Lectures: 11 x 1 hour; tutorials 11 x 1.5 hours. (Perth and Dubai)  
Workshops: 24 hours contact time plus online content. (KAPLAN)

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC104 Introduction to Journalism or JOU104 Introduction to Journalism may not enrol in this unit for credit.

**Digital Newsroom (JOU322)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit involves advanced news writing for publication. Students will work in the on-campus newsroom to produce text-based and multimedia stories for Murdoch's online news service The Bounce.

Workshops: 2 hours per week in first seven weeks; one full day a week rostered in the newsroom in final five weeks.

Prerequisites: JOU367 Photo and Video Journalism (or MCC267 Photo and Video Journalism) AND JOU217 Web News Production (or MCC217 Web News Production) AND JOU245 Media Law and Ethics (or MCC245 Media Law and Ethics) OR permission from the Unit Coordinator.

Exclusions: Students who have successfully completed MCC323 Newsroom may not enrol in this unit for credit.

**Digital Painting (GAD374)**

Credit Points: 3

MURDOCH: S1-internal

This unit teaches the techniques and theory of digital painting, focusing on practical application of software tools, and demonstrable skills in digital art production. The unit draws on existing knowledge of artistic core concepts and theory, and extends design knowledge as it applies to painting with a digital canvas.

Online lectures: 1 hour; laboratories: 3 hours

Prerequisites: Successful completion of GAD172/MCC172 Drawing

**Discrete Mathematics and Management Science (MAS225)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers topics in discrete mathematics that have relevance to computer science, including the theory of graphs and trees, algorithms for graph problems (e.g. shortest paths, binary search and spanning trees), languages and finite state machines. The unit also covers topics in management science (or operations research) that are important in industry and government, including formulation of linear programming problems, simplex algorithm, sensitivity analysis, transportation problems, and project scheduling. Computer packages are used to aid understanding of various methods.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week

Prerequisites: MAS162 Foundations of Discrete Mathematics OR enrolment in a postgraduate IT course.

**Discrete Time Systems (ENG294)**

Credit Points: 3

MURDOCH: S2-internal, SUM-internal, U-internal

This unit provides the foundations in discrete time systems with one of the major outcomes being the understanding and implementation of a computer-based control system. Topics include: fundamentals of control systems; analogue and digital I/O; sampled data systems, discrete time tools, dynamic analysis, digital filters, feedback control, digital controllers, discrete Fourier transforms. Simulink, Matlab and LabVIEW are used extensively in problem solving, simulations, analysis and to perform computer based measurement and control.

Lectures: 1 x 2 hours per week; computer workshop: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: PEC152/PEN152 Principles of Physics; MAS161 Calculus and Matrix Algebra or co-requisite MAS208 Mathematical Modelling; ENG109 Computing for Scientists and Engineers; ENG192 Energy, Mass and Flow; ENG297 Circuit and Systems II or co-requisite ENG207 Principles of Electronics Instrumentation. Recommended co-requisite: ENG299 Control Systems and Process Dynamics.

**Dissertation (Research Project) (CHI675)**

Credit Points: 12

Not available this year

This unit will allow students to gain specific research knowledge requiring a high level of research skill and quality including a literature search, design of a research study, implementation of the study, analysis of the data results and writing the manuscript in preparation for publication.

External: No attendance required.

Prerequisites: Completion of Chiropractic Degree or equivalent. Enrolment in the Masters program including completion of 24 points of graduate work such as the Postgraduate Certificate/Diploma in Neuromusculoskeletal Rehabilitation or the Postgraduate Diploma in Sports Chiropractic, or their equivalents. Completion of CHI677 Research Methods and Epidemiology is required before enrolling in this unit, or by special application to the Unit Coordinator.

Students cannot self-enrol in this unit.

### **Distributed Energy Resources and Demand Response (ENG557)**

Credit Points: 3

MURDOCH: S2-internal

This unit discusses the integration of distributed energy resources and demand response within electric grids. The effects of distributed generation such as rooftop photovoltaic, energy storage, and demand response on power delivery networks are addressed. To this aim, the technical issues such as voltage and thermal limit violations associated with these energy resources on traditional distribution networks are investigated. Then, the solutions for addressing these issues such as the new design of electric grids, compensators, and implementation of control systems are scrutinized.

Lectures: 1 x 2 hours per week; Tutorials/Workshops/laboratories: 1 x 2 hours per week.

A consultation time is offered for students who may need more discussion on the concepts, and/or more help with regard to the assessments.

Prerequisites: Enrolment in Graduate Diploma of Engineering or Master of Engineering.

### **Diversity and Inclusion (EDN612)**

Credit Points: 3

MURDOCH: ST2-internal, ST2-external

Teachers have a responsibility to understand diversity and teach in ways that are inclusive of all students, regardless of cultural background, social class, gender and sexuality, or dis/ability. This is a 'big ask' for beginning teachers. Therefore, in order to assist in negotiating the complexity of inclusive education, the unit will:

- Introduce you to the aspects of diversity that you are likely to encounter in primary school contexts.
- Explore ways in which diversity can be accommodated in an inclusive classroom / school.

Lectures/seminars: 2 hours per week over 9 weeks.

School based research

Prerequisites: Enrolment in the Master of Teaching (Primary) and completion of or co-enrolment in EDN5501 Transition to teaching and EDN563 Literacy and learning.

### **Doctor of Business Administration Thesis (MBS700)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Students should enrol in this unit for the thesis component of their DBA. Students will be required to identify their research problem, conduct a literature review, develop a conceptual framework and research methodology for their thesis. Students will then be required to undertake the proposed research project and present their findings in a thesis. Students should re-enrol in this unit until they finalise their research and submit the completed thesis (48 points).

Regular meetings will be scheduled with supervisors.

Prerequisites: Enrolment in Doctor of Business Administration.

Students cannot self-enrol in this unit.

### **Doctor of Information Technology Thesis (ICT702)**

Credit Points: 12

MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external, S1-internal, S1-external, S2-internal, S2-external

Students should enrol in this unit for the thesis component of their DIT. Students will identify their research problem, conduct a literature review and plan the research. The proposed project will then be undertaken and findings presented in a thesis. The thesis will be examined in accordance with the requirements for professional doctorates. Full-time students should enrol for 12 points each semester and part-time students for 6 points each semester until submission of the thesis.

Meetings with Supervisor: up to 1 hour per week.

Prerequisites: Enrolment in the Doctor of Information Technology; ICT650 Information Technology Research Methods or ICT615 Information Technology Research Methods.

### **Doctor of Psychology (Clinical): Research Integrated Practicum I (PSY703)**

Credit Points: 6

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Research Integrated Practicum I (PSY703) combines the practicum requirements to meet APAC and Psychology Board criteria for professional registration and research training in translational research methodology. These two goals are integrated in order to advance the student's understanding and skills in the scientist-practitioner model which is central to clinical psychology. Students will be assisted to select placements and undertake placement activities that meet APAC and Registration Board requirements. Students will also attend regular seminars on clinical and research matters.

Prerequisites: Enrolment in the Doctor of Psychology in Clinical Psychology; completion with an average of distinction in the Master of Applied Psychology in Clinical Psychology Year 1 required units or equivalent; Provisional Registration as a Psychologist with Psychology Board of Australia.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Doctor of Psychology (Clinical): Research Integrated Practicum II (PSY704)**

Credit Points: 6

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Research Integrated Practicum II (PSY704) continues the Doctoral practicum experience and is designed to meet APAC and Psychology Board criteria for professional registration. Research training in translational research methodology continues with a focus on support to collect data, undertake training in research methodology to support the completion of the Translational Research Project. Students must complete practical placements in appropriate agencies and organisations. Students will attend regular seminars on professional, practical and methodological issues.

Practical placements: 67 days total; seminars/workshops: as scheduled throughout the year.

Prerequisites: PSY703 Doctor of Psychology (Clinical): Practicum I; enrolment in the Clinical Psychology specialisation of the Doctor of Psychology; Provisional Registration as a Psychologist with Psychology Board of Australia.

A result of Ungraded Pass or Fail is awarded for this unit.

**Doctor of Psychology (Organisational): Practicum I (PSY701)**

Credit Points: 6

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Students must complete practical placements in agencies and organisations appropriate to the organisational psychology specialisation. Students will be advised to select placements that will meet APAC and Registration Board requirements. Students will also attend seminars on professional, practical and methodological issues.

15 x 3-hour seminar classes spread evenly over the year from week 1 of S1 to early November. Timetabled concurrently with PSY603/PSY701/PSY702.

Practical placements: 187 days total plus workshop completion as directed by unit coordinator in total over PSY701/PSY702.

Prerequisites: Enrolment in DPsych (Organisational Psychology specialisation only) and completion of the first year of the DPsych (Organisational) course.

A result of Ungraded Pass or Fail is awarded for this unit.

**Doctor of Psychology (Organisational): Practicum II (PSY702)**

Credit Points: 6

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Students must complete practical placements in agencies and organisations appropriate to the organisational psychology specialisation. Students will be advised to select placements that will meet APAC and Registration Board requirements. Students will also attend seminars on professional, practical and methodological issues.

15 x 3-hour seminar classes spread evenly over the year from week 1 of S1 to early November. Timetabled concurrently with PSY603/PSY701/PSY702.

Practical placements: 187 days total plus workshop completion as directed by unit coordinator in total over PSY701/PSY702.

Prerequisites: PSY701 Doctor of Psychology (Organisational): Practicum I; Provisional Registration as a Psychologist with Psychology Board of Australia and completion of the first year of the DPsych (Organisational) course.

A result of Ungraded Pass or Fail is awarded for this unit.

**Doctor of Psychology Thesis (PSY700)**

Credit Points: 48

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

The thesis requires completion of two research projects:

- (1) an innovative and systematic investigation of a psychological theme relevant to the clinical practice of psychology and the findings of which are relevant to a specific clinical population.
- (2) A Translational Research project which consists of an industry or health service oriented portfolio of research projects conducted in partnership with a service provider where data is collected during practicum or based on data available from that service.

It is a course requirement for students enrolled to attend a series of seminars on research methodology.

Students will meet regularly with a minimum of two supervisors and every 6 months with an Advisory Panel (comprised of the supervisors and an Advisory Panel Chair, appointed at the

commencement of candidature in the doctoral program). The translational research project will be a collaboration with Industry experts and service providers who will work with the supervisory team. In some cases, additional academic expertise will be required and additional academic staff will be invited onto the supervisory team as associate supervisors.

Prerequisites: Enrolment in DPsych(Clinical); Completion with distinction of first year units (or equivalent in the case of direct entry to DPsych).

Students cannot self-enrol in this unit.

A result of Ungraded Pass or Fail is awarded for this unit.

**Doctor of Veterinary Medical Science Thesis (VET770)**

Credit Points: 48

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

An applied, systematic examination of a problem, disease, condition of veterinary relevance. A principal supervisor is appointed from University academic staff; up to two additional supervisors may be appointed. The thesis is examined in accordance with the requirements for professional doctorates. Full-time students should enrol for 12 points for four semesters until submission of the thesis. Part-time students will enrol for 6 points each semester until 48 points are accumulated.

2 hours per week.

Prerequisites: Enrolment in Doctor of Veterinary Medical Science.

**Documentary (MCC333)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit introduces students to the main issues and debates in the study of documentary film from the perspective of history, genre, theory and ethics, as well as its social and cultural functions. The unit shows how documentary techniques influence the way we organise knowledge about the world, and the way we represent ourselves and others. The unit will also have a production component where students will have the option to make a 10-minute documentary from 'found' material.

Lectures: 1 hour per week; screenings: 2 hours per week; tutorials: 1.5 hours per week.

Note: Lectures and tutorials for this unit commence in Week 1 of the semester.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED333 Documentary may not enrol in this unit for credit.

**Documentary (SCR300)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to the main issues and debates in the study of documentary film from the perspective of history, modes, genre, theory and ethics, also its social and cultural functions. Shows how documentary techniques influence the way we organise knowledge about the world, and the way we represent ourselves and others. Though the unit is essentially theory based it will also offer the students an opportunity to work on a production component based on a previous edited documentary production.

Lectures: 1 hour per week; tutorials 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC333



Documentary may not enrol in this unit for credit.

### Documentary Production (SCR304)

Credit Points: 3

MURDOCH: S2-internal

This is a practical unit in which students will be introduced to the conceptualisation, research, development, and production process of documentaries. Students will devise and research their own documentary ideas, some of which will be put into group production to be finished by the end of semester. Areas taught will include crafting and shooting documentary interviews, narrative construction and rhetoric, guerrilla lighting techniques, location sound practices, factual entertainment, crowd-funding, and more.

Lectures: 1 hour per week; workshops: 1.5 hours per week.

Students will be required to work both individually and in groups on documentary productions on-location (and outside the designated times of the workshop)

Prerequisites: MCC128 Screen Production or SCR101 Screen Production 1

### Drama and the Curriculum (Secondary) (Major) (EDN412)

Credit Points: 4

MURDOCH: S1-internal

Explores ways teachers and students in school settings develop deeper understanding of drama. Explores drama as an art form: conventions, styles, forms, technologies, skills and processes together with its historical, social and cultural contexts. Focuses on understanding drama curriculum and drama teaching; teaching practice integrating theory with practical strategies and approaches for effective learning; and contemporary contexts (including the WA Certificate of Education Courses; and The Australian Curriculum: The Arts; Western Australian P-10 Drama Syllabus).

Lectures: workshops/ practicals: 1 x 3 hours per teaching week held in Drama Workshop; tutorials/rehearsals: 1 hour per teaching week.

One performance per semester (with associated rehearsals).

Prerequisites: Enrolment in a teacher education course [either BEd (Secondary) or BEd (Secondary) (Graduate) or GradDipEd (Primary) or GradDipEd (Secondary)].

Students should also be enrolled in EDN4100 School Experience: Secondary BEd for students enrolled in the BEd (Secondary)/BA (Theatre and Drama/English and Creative Arts) where taking this unit (EDN412) as a curriculum major.

OR

Enrolment in EDN3101 School Experience: Secondary BEd for students enrolled in the BEd (Secondary) and taking EDN312 as a curriculum minor.

OR

Enrolment in EDN2161/EDN514 School Experience: Secondary GradDipEd for students enrolled in the GradDipEd (Secondary) as a curriculum major (EDN412) or minor (EDN312).

Exclusions: Students who have completed EDN312 (2 points) and EDN412 (4 points).

Curriculum teaching major in Drama requires a maximum of two units (6 points) at Part I-level and at least one unit (4 points), preferably more, at Part II-level from the Theatre and Drama/English Creative Arts major (drama specific) (or equivalent). Students must complete and submit all assessments to pass this unit.

### Drama, Theatre and Performance (EGL106)

Credit Points: 3

MURDOCH: S2-internal

This unit introduces students to a selection of dramatic texts from a range of different periods and cultures, and assists students in developing skills in the analysis and critique of these dramatic texts. In workshops students will learn basic skills in voice, movement and improvisation. Students will have an opportunity to participate in transforming a text into a performance through the stages of writing, designing and directing.

Lecture : 1 hour per week; Workshop: 1.5 hours per week

Prerequisites: Nil.

### Drawing (GAD172)

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit is an introduction to the principles of drawing. Through set projects, students will explore the rigorous formal, conceptual, analytical and expressive drawing techniques to develop and expand their drawing skills.

Media laboratories: 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC172 Drawing cannot enrol for credit in this unit.

### Drawing Studio (GAD373)

Credit Points: 3

MURDOCH: S2-internal

This unit builds on the technical and expressive skills gained from the first year Drawing unit. Students will rigorously develop drawing skills required for their competent application in a range of design and games-related industries.

Media laboratories: 2.5 hours per week

Prerequisites: GAD172 Drawing or MCC172 Drawing

Exclusions: Students who have successfully completed MCC273 Drawing Studio may not enrol in this unit for credit.

### Drugs in Society (BRD202)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Have you ever wondered how aspirin knows where the pain is? Or why some drugs are so addictive? This unit explores drugs, asking how they are discovered and regulated. It examines social drugs such as alcohol and nicotine, illicit drugs such as cannabis and cocaine, and medicines such as painkillers and anti-depressants. It considers social, ethical and economic issues such as reproductive medicines, drugs in sport and the rise of complementary medicines, as well as future personalised therapies.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed BMS105 Drugs in Society may not enrol in this unit for credit.

This is a University-Wide Breadth Unit.

### **Dynamics of Cultural Diversity in the Workplace and the Community (EDN546)**

Credit Points: 3

MURDOCH: S1-internal

Managing and capitalising on the rich potential of cultural diversity requires a cross-cultural mindset, intercultural competence and positive leadership capabilities. Challenges and opportunities offered by cultural diversity are examined at multiple levels (individual, group, organisation, communities), diverse angles (cross-cultural management and leadership, intercultural communication, cultural intelligence, multicultural teams) and international perspectives (Australian, Asian, American, European). Assumptions, strengths and limitations of theories and research to guide professional practice are scrutinised. The unit builds upon participants' experience of cultural diversity.

Seminars and workshops are delivered in semester teaching mode (8 blocks of 3 hours). All classes take place after 4.30pm. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator

### **Early Childhood Learning Environments (EDN432)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Lecture: 1 Hour per week; Workshop: 2 Hours per week.

To complete Assignment Two, students will need to locate an early childhood Long Day-care Centre to undertake fieldwork. To complete Assignment Three, students will need to participate in an online group assignment. Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Students will complete five distributed days (6-7 hours per day) working with children aged 2-3 years in an Australian Long Day-care Centre.

Prerequisites: Enrolment in the Bachelor of Education (Early Childhood and Primary Teaching) AND successful completion of EDN354 Integrated Early Childhood Curriculum AND EDN332 Children, Families and Communities

Exclusions: Students who have completed EDN238 Early Childhood Learning Environments may not enrol in this unit for credit.

Prior to undertaking fieldwork at an Early Years Long Day-care Centre, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before fieldwork is arranged.

### **Earth, Fire, Wind and Water: Australian Environmental History (HIS256)**

Credit Points: 3

Not available this year

This unit examines aspects of the interaction between human history and the Australian environment. It considers questions such as the impact on the Australian continent of millennia of Aboriginal occupation; the transformation of the land wrought by Europeans; issues and conflicts arising from changing understandings of the Australian environment; and the nature of belonging. Finally, the unit addresses some of the major environmental and ethical issues that confront Australians facing the twenty-first century.

Lectures: 1 hour per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed HIS283 Earth, Fire, Wind and Water: Australian Environmental History cannot enrol in this unit for credit.

### **Ecology (ENV241)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Ecology concerns interactions of biota that determine their distribution and abundance. Students study ecological concepts, the scientific method, and their practical application in the field. Theory will cover interactions from the level of individuals, through populations, communities, ecosystems and finally, the biosphere. The unit is taught from an evolutionary perspective and will use familiar Australian examples to augment understanding. A field component is integral: all students participate in the collection and interpretation of a substantial set of ecological field data.

Lectures: 2 hours per week; computer laboratories: 1 x 3 hours; one week field component in either the first or second non-teaching week (see below).

One-week field component during which students will design, collect, collate, analyse and begin to interpret a substantial amount of ecological data.

Prerequisites: BIO103 Environmental Biology/Introduction to Environmental Biology or BIO180 Introduction to Marine Biology.

Exclusions: Students who have successfully completed ENV268 Ecology may not enrol in this unit for credit.

### **Econometrics (BUS292)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

Econometrics is concerned with the empirical testing of economic and finance theories. A working knowledge of the subject is essential for those students intending to work as professional economists, financial analysts and business professionals. This unit adopts a hands-on approach to the subject, combining the theory of econometrics with the use of computer packages. The unit provides students with a good working knowledge of the subject and the ability to solve practical problems.

Computer laboratories: 2 hours per week.

Prerequisites: BUS161 Introduction to Economics or BUS171 Foundations of Economics; MAS164 Fundamentals of Mathematics or MAS180 Introduction to Statistics or MAS183 Statistical Data Analysis or BUS130 Foundational Mathematics for Business.

Exclusions: Students who have successfully completed BUS294 Econometrics may not enrol in this unit for credit.

### **Economics and Business Strategy (MBS686)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

Increasing competition and rapid technological change mean that, more than ever before, managers must have a sound understanding of the economic fundamentals of business enterprises, the operation of markets and the role played by governments. In this unit particular emphasis is given to the strategic interdependence of many businesses and their efficiency

Workshops: 2 hours per teaching week for South Street Campus

7

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate level course

Exclusions: Students who have completed MBS666 Economics and Business Strategy may not enrol in this unit for credit.

### **Economics in Society (BUS162)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces theoretical models and empirical tools used in economic analysis. These economic theoretical models and tools are applied using an 'issues' based approach. Issues relating to topics such as income distribution, government intervention, exchange rate systems and long run economic growth are examined. In addition, the unit incorporates a basic introduction to game theory and behavioural economics.

Workshops: 2 hours per teaching week 1

Prerequisites: Nil.

### **Economics of Sustainability (SUS305)**

Credit Points: 3

MURDOCH: W-internal, W-external

This intensive unit explores the interplay between economics and sustainability. Students will examine the explanatory power and policy impact of the dominant neoclassical economics paradigm in order to understand its benefits and limitations in relation to sustainability. The unit provides an overview of economic tools and techniques for dealing with sustainability problems and introduces alternative economic perspectives, which challenge economic orthodoxy.

1 x 2 hr introductory lecture  
5 x 2 hr lectures  
5 x 2 hr workshops  
1 x 2 hr synthesis lecture

Mini lectures presented by guest speakers on select topics; recordings from relevant documentaries and television programs pertaining to economics and sustainability.

Prerequisites: Nil.

Exclusions: Students who have successfully completed STP205 Economics and Sustainability or SUS202 Economics and Sustainability may not enrol in this unit for credit.

### **Education Project (EDU660)**

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

A supervised project, resulting in a scholarly report. This will provide evidence that the participant can generate a problem and/or research an area from his or her own interests or professional work in education. The project will be a critical literature review that demonstrates mastery of a problem area. Approval by the supervisor, on the basis of a written proposal, must be obtained before the project commences.

Seminars: 6 x 1.5 hour distributed throughout the semester.

Prerequisites: Successful completion of EDU603/610 Introduction to Research for Educators or equivalent. It is recommended that part-time students complete all the proposed units before enrolling in EDU660 or, if full-time, then this unit is completed in the last semester of their enrolment.

Exclusions: Students who have successfully completed EDU600 may not enrol in this unit for credit

### **Effective Leadership (MBS687)**

Credit Points: 3

Not available this year

This unit explores the nature and role of leadership using selected readings, case studies and discussion. Issues such as 'What is leadership?', 'What do leaders do?' and 'What determines a leader's success or failure?' will be tackled, as well as the key question, 'What is the difference between leading and managing?' The unit focuses on distributed leadership where everyone in the organisation contributes to developing the organisation's leadership capability and developing personal awareness of these leadership capabilities.

Lectures/seminars workshops delivered weekly in one or two three hourly blocks. Total contact time 30 hours.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS671 Effective Leadership, MBS6712 Effective Leadership, MBS571 Effective Leadership or MBS6711 Effective Leadership may not enrol in this unit for credit.

### **Effective Leadership (MBS6872)**

*As for MBS687 except:*

Credit Points: 3

MURDOCH: SUM1-internal, U2-internal, U2-external, W-internal, W-external

Seminars: South Street Murdoch 3 x 2.5 hours per week during the teaching semester.

Students are encouraged to develop an understanding of leadership relevant to their personal characteristics.

Prerequisites: Enrolment in C1083 Postgraduate Certificate in Business Administration (MasterClass) or C1115 Graduate Certificate in Business Administration (MasterClass).

Exclusions: Students who have successfully completed MBS671 Effective Leadership, MBS687 Effective Leadership or MBS6711 Effective Leadership may not enrol in this unit for credit.

Taught intensively during the Summer study period. Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

### **Electrical Power Systems Design (ENG449)**

Credit Points: 3

MURDOCH: S1-internal

Lectures: 1 x 2 hours per week; workshops: 1 hour per week; laboratories: 1 x 2 hours per week.

### **Electrical Safety (ENG519)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit offers detailed understanding and knowledge in electrical safety and hazards, safety requirements and practices with relevant standards for electrical installation, risk assessment & management and engineering safeguards & controls. It also develops skills to identify electrical hazards and apply measures to minimise risk in the commercial and domestic application and the industries. This unit will be taught principally by academics from the University and expert professionals from industry including industry visits.

Lectures/workshops: 1 three hour session per week (notionally 2



hours of lecture and 1 hour of tutorial) for the 12 teaching weeks.

Students will need some outside of class time to undertake aspects of the projects. There will be some industry visits.

Prerequisites: Enrolment in the Graduate Diploma in Safety Science.

### **Electromagnetism (PEN332)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit covers the analysis of electric and magnetic phenomena using the formalism of vector calculus. This leads to the derivation of Maxwell's Equations, which are shown to be applicable to electromagnetic waves spanning the entire electromagnetic spectrum, and applied to a range of electric and magnetic physical situations. A number of practical applications of electromagnetic wave phenomena and some important properties of electromagnetic materials are studied in this course.

Lectures: 1 x 2 hours per week; Tutorials: 1 x 1.5 hours per week; Laboratory: 4 x 2 hours per week.

Prerequisites: PEN152/PEC152 Principles of Physics and MAS161 Calculus and Matrix Algebra.

Highly recommended: MAS220 Mathematical Methods.

### **Electromechanical Energy Conversion (ENG317)**

Credit Points: 3

MURDOCH: S1-internal

This unit is concerned with the principles of energy conversion between mechanical and electrical systems and vice versa. It investigates and models the behaviour of transformers and a range of electrical machines, including synchronous, induction, and DC generators and motors.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week; laboratories: 1 x 3 hours per week.

Project work is offered in terms of two mini projects which involve some modelling and simulation work on a PC. Students do these projects as part of their self-directed learning.

Prerequisites: ENG243/ENG297 Circuits and Systems II.

### **Emerging Christian Theology: The Creeds (100-500 CE) (THE510)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is an introduction to the history of Christian theology from the origins of Christianity in the first century until the Council of Chalcedon in 451. It focuses on early Christian understandings of God, Christ, the Holy Spirit, the Trinity, and the Church, in connection with theological method, biblical interpretation, theological anthropology, worship, spirituality, and ethics. A study of the historical contexts, major theologians, church councils, and doctrinal developments of the patristic period.

Seminars: 1 x 2 hours per week

Prerequisites: Enrolment in graduate level study.

### **Empirical Research Methods for Business (BBS300)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

In this unit you will be guided through the full research process: you will start with an evaluation of a question or problem of interest; you will then develop an appropriate research design to

acquire relevant data; you will choose an appropriate method of analysis; and finally you will come to a reasoned conclusion about the original question or problem of interest. This unit will equip you with the basic skills to undertake independent research in your own degree.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BBS200 Business Research: An Integrated Approach.

### **Employment Relations (BUS332)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides an introduction to the Australian employment relations environment. Topics to be examined include labour market issues, different approaches to employee relations, the role of government, unions, management and employer associations, collective bargaining, dispute management and workplace negotiation.

Workshops: 2 hours per teaching week

Prerequisites: BSL202 Workplace Law and BUS297 Principles of HRM

Exclusions: Students who have completed BUS222 Employment Relations or BUS251/BUS351 Employment Relations in Asia may not enrol in this unit for credit.

### **Employment Relations and Asia Pacific Contexts (MBS624)**

Credit Points: 3

KAPLAN-SGP: TMA-internal

This unit examines and compares the employment relations systems and environments in a number of Asian Pacific countries. Using a number of theoretical frameworks, the various approaches to employment relations in different countries are analysed and compared. The significance of the countries' cultural and historical context is also considered. The impact of globalisation and the role of international stakeholders, such as multi-national companies and global unions, is also examined.

Workshops: 2 hours per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

### **Employment Relations in Asia (BUS351)**

Credit Points: 3

KAPLAN-SGP: TMA-internal

This unit provides an introduction to employment relations environments in Asia. It includes an examination of labour market conditions, the role of government, unions and employer associations, collective bargaining, dispute management and other workplace issues.

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BSL202 Workplace Law and BUS297 Principles of HRM or BUS145 Principles of management and is enrolled in course B1003

Exclusions: Students who have completed BUS251 Employment Relations in Asia or BUS222/BUS332 Employment Relations may not enrol in this unit for credit.

**Employment Relations Law (LLB363)**

Credit Points: 3

Not available this year

LLB363 examines regulation of the relationship between employers and employees in Australia. It reviews the individual contract of employment before focusing on the Federal employment relations system, locating it in its constitutional context and examining various aspects. Topics include common law duties, roles of the Federal statutory bodies, minimum standards, enterprise bargaining, industrial action and unfair dismissal.

Lectures: 2 hours per week

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB260/LAW260 Contract Law

Exclusions: Students who have completed LAW363 Employment Relations Law OR C228/BUS228 Employment Law may not enrol in this unit for credit.

**Energy and Greenhouse Reporting (PEN501)**

Credit Points: 3

Not available this year

This unit develops an understanding of the rigorous Energy and Greenhouse Reporting methodologies that apply in today's world of environmental regulation and markets. The possibility of carbon pricing in Australia, combined with an increased community awareness of climate change, demands thorough attention to the accounting of greenhouse gas emissions. Energy Efficiency Programs require strict accounting for energy consumption and the calculation of energy usage breakdowns. This unit will look at systems for reporting both energy consumption and greenhouse emissions.

Lectures/seminars/workshop/tutorial: 1 x 3 hours per week.

Prerequisites: Enrolment in Graduate Certificate in Energy Studies or Graduate Diploma in Energy and the Environment or Graduate Diploma in Energy Studies.

**Energy Economics (PEN593)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit presents economic theory relevant to the energy sector, including investment decision making, energy market operation, price determination, and risk management. As a critical issue this century, externalities in the energy sector and their internalisation are covered in detail. Attention is given to open access to energy infrastructure, energy sector taxation, and the role of public utilities and government industry regulators. The unit emphasises that the role of the market should always be considered within the broader ecological and social context.

Lectures/tutorials: 1 x 3 hours per week, (notionally 2 hours of lecture and 1 hour tutorial for the 12 teaching weeks.)

Prerequisites: Enrolment in a graduate level course. Recommended PEC592/PEN592 Energy in Society.

**Energy Efficiency, System Analysis and Auditing (PEN625)**

Credit Points: 3

MURDOCH: S2-external

This unit is the first of two units that look at advanced methods in energy efficiency. Topics: energy surveys, mass and energy balances, thermodynamics, energy, air psychometrics, heat transfer and introductory process integration (pinch technology).

The unit is co-ordinated and run for students by staff at Massey University in New Zealand as part of a co-operative agreement where Murdoch students can undertake units at Massey and Massey students can undertake units at Murdoch.

External: no attendance required.

There is no attendance required for external students.

Prerequisites: PEC594/PEN594 Energy Management or equivalent, plus enrolment in Master of Science in Renewable Energy/Master of Renewable Energy.

This unit is taught externally/online by staff from Massey University with tutorial support from Murdoch staff. It is only offered every second year.

**Energy Efficient Buildings (PEN670)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The aim of this unit is to provide a practical and scientific understanding of the impact of climate on building design and the factors which affect the energy efficiency of the building. The unit also focuses on the evaluation of the energy efficiency of buildings and approaches to reduce energy consumption by occupants of principally domestic and light commercial buildings.

Lectures/workshops/tutorials: 1 x 3 hours per week.

Prerequisites: Enrolment in the Postgraduate/Graduate Diploma in Energy and the Environment, Master of Science in Renewable Energy/Master of Renewable Energy or Master of Science in Environmental Architecture. Knowledge of physics equivalent to PEC120/PEN120 General Physics OR PEC152/PEN152 Principles of Physics OR successful completion of PEC592/PEN592 Energy in Society, PEC594/PEN594 Energy Management or PEC590/PEN590 Energy Systems. Recommended: PEN592 Energy in Society.

**Energy in Society (PEN592)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-external

This is a unit about energy sources and how they are utilised to produce power for human society. It is based on a multidisciplinary approach and covers patterns of consumption; energy conversion technology; environmental and social impacts; conventional and alternative sources; energy conservation and options for future energy supplies.

Energy in Society is a key unit in all Energy Studies courses at Murdoch University covering a range of energy topics including economic and political issues.

Lectures/tutorials: 1 x 3 hours per week.

Prerequisites: Postgraduate/Graduate Certificate in Energy Studies, Graduate Certificate in Energy and Carbon Studies, Postgraduate/Graduate Diploma in Energy and the Environment, Postgraduate/Graduate Diploma in Energy Studies, Graduate Diploma in Energy and Carbon Studies, Master of Renewable and Sustainable Energy.

Exclusions: Students who have previously completed PEC592 Energy in Society may not enrol in this unit for credit.

**Energy Management (PEN594)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit delivers knowledge surrounding the process of implementing energy management programs in commercial and industrial companies. The first part of the unit teaches some key skills related to the use of tools and techniques of energy

management including economic evaluation of energy saving options, tariff analysis and energy audits. The second part of the unit deals with the application of knowledge and skills in a range of applications of energy management strategies in commercial and industrial premises.

Lectures/workshops: 1 x 3 hours per week.

Week 3 Laboratory Only : Electricity and metering: 1 x 2 hours.

For internal students there will be a site visit to see the energy consuming equipment in a large facility. Materials from these learning experiences are made available to online students.

Prerequisites: Postgraduate/Graduate Certificate in Energy Studies, Graduate Certificate in Energy and Carbon Studies, Postgraduate/Graduate Diploma in Energy and the Environment, Postgraduate/Graduate Diploma in Energy Studies, Graduate Diploma in Energy and Carbon Studies, Master of Renewable and Sustainable Energy.

Exclusions: Students who have successfully completed PEC594 Energy Management may not enrol in this unit for credit.

### Energy Policy (PEN591)

Credit Points: 3

MURDOCH: S2-internal, S2-external

The unit seeks to provide an understanding of the public policy processes and institutions that give rise to the shape, direction, and outcomes in the energy sector. The sources of energy policy objectives are explored, along with the range of policy instruments available to achieve them. Political and economic drivers of policy formation are explored in the areas of fossil fuel policy, nuclear energy, the global environment, renewable energy, energy sustainability, and above all climate change.

Lecture/seminar/workshop/tutorial: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level course. Recommended: PEC592/PEN592 Energy in Society and PEC593/PEN593 Energy Economics.

### Energy Studies Project (PEN596)

Credit Points: 3

Not available this year

This is a unit offered in the Graduate Diploma in Energy Studies and in the Graduate Diploma in Energy and the Environment that allows students to investigate a particular area of research interest. In this unit students are required to define a research question and address it via a comprehensive literature survey and the presentation of a research plan. The student is required to carry out a critical analysis of the literature review and show evidence of independent thought.

Lecture/Seminar: 1 x 2 hour online introductory seminar.

Prerequisites: Enrolment in the Graduate Diploma in Energy Studies or the Graduate Diploma in Energy and the Environment.

Exclusions: PEC596 Energy Studies.

### Energy Supply and Management (ENG338)

Credit Points: 3

MURDOCH: S1-internal

The first section of this unit deals with the tools required to set up an energy management program such as measurement of electricity and natural gas consumption, tariff analysis and energy auditing. The second section provides a summary of the key energy systems and technologies, both conventional and emerging, that can provide our electrical energy needs. The third section provides more detailed consideration of some of the key renewable

energy systems such as photovoltaic and wind systems.

Lectures/workshops: 1 x 3 hours per week for 12 weeks (notionally 2 hours of lectures and 1 hour of tutorial)

Laboratory: 1 x 3 hours per week, apart from Week 1.

Students may need some outside of class time to undertake aspects of the energy audit project.

Prerequisites: PEN120 General Physics/PEN152 Principles of Physics and BEN100 Transitioning into Engineering.

Exclusions: Students who have completed PEC294 Energy Management or PEC390 Energy Systems may not enrol in this unit for credit.

### Energy Systems (PEN590)

Credit Points: 3

MURDOCH: S2-internal, S2-external

An introduction to the design and operation of energy conversion and supply systems. The focus is on the principal small to medium scale energy systems currently in use in Australia. Key areas covered include engine-based RAPS systems, hybrid systems, photovoltaic systems, wind power systems and solar thermal systems. Co-generation systems and microhydro systems are also considered.

Lectures/tutorials: 1 x 3 hours per week.

For internal students a site visit to the Outdoor Test Area at Murdoch allows the students to view, up close, the renewable energy systems that are discussed in the lectures.

Prerequisites: Enrolment in the Postgraduate/Graduate Certificate in Energy Studies, Graduate Certificate in Energy and Carbon Studies, Postgraduate/Graduate Diploma in Energy and the Environment, Postgraduate/Graduate Diploma in Energy Studies, Graduate Diploma in Energy and Carbon Studies, Master of Renewable and Sustainable Energy

Exclusions: Students who have previously completed PEC590 Energy Studies may not enrol in this unit for credit.

### Energy, Mass and Flow (ENG192)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is designed to provide the engineering and physics foundations, skills and knowledge to understand energy and mass transfer in simple systems. It provides the background to analyse process oriented problems. The unit builds upon the fundamental physics by both regimenting students in solving problems in the areas of energy, mass and flow, as well as developing practical skills and understanding of the basics of the physical processes. Both analytical and computer-based problem solving techniques are used.

Lectures: 2 hours per week; workshops: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: Completion of, or concurrent enrolment in, MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; plus a final scaled score of 60% or more in WACE Physics 3A/3B or a pass in PEC120/PEN120 General Physics.

### Engaging Communities through Drama (EDN304)

Credit Points: 3

MURDOCH: S2-internal

Drama and theatre educate in the broad sense. This unit explores how children, adolescents and community learn through participating in drama as a dynamic, transformative art. It bridges drama in schools and drama in wider community contexts through

7

practical embodied learning workshops, performance projects and placements underpinned by theoretical exploration of the uses and purposes of applied drama and theatre. It engages with new practices in drama, theatre and performance designed to make a difference in participants' lives.

Lectures/workshops: 4 hours per week; rehearsals and performance: as required.

Class attendance is required due to the impact of absence on other students in team or group activities.

All students must access LMS during this unit to submit work electronically and work collaboratively.

Students collaborate to form a theatre company responding to the needs of an identified community as the basis of a realised performance in that community.

Prerequisites: Nil.

### **Engaging with a Sustainable Future (ENV536)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Achieving a sustainable future ultimately depends on how well we are able to engage with individuals, communities and organisations to achieve changes in behaviour. This project-based unit develops project design, implementation and evaluation skills while exploring effective education and engagement strategies for sustainability. Hands-on experience and opportunities to network with EFS practitioners will be provided. Local environmental issues, programs and practices illustrate links between environmental opportunities, community engagement and behaviour change strategies for individuals, organisations and communities in WA.

Lectures: 14 hours spread over 3 intensive sessions; workshops: 24 hours spread over 3 intensive sessions; excursions: 4 hours once per semester.

Prerequisites: Enrolment in Graduate Certificate in Environmental Science or Graduate Certificate in Protected Area Administration or Graduate Diploma in Environmental Science or Bachelor of Marine Science or Master of Sustainable Development).

Exclusions: Students who have successfully completed EDU650/EDU450 Environmental Education for Sustainability may not enrol in this unit for credit.

### **Engineering Computing Systems (ENG109)**

Credit Points: 3

MURDOCH: S2-internal

Modern industrial processes rely heavily on embedded controllers, both for monitoring and control of operations and to provide warnings and alarms ensuring personnel safety. This unit explores microcontroller hardware and computer-based engineering tools, commonly used in Engineering and Science for the design, analysis and operation in various technological domains. This unit provides both hardware-oriented microcontroller laboratory sessions and computer-based workshops. Students will develop programming skills and learn about the constraints of developing for real-time environments.

Lectures: 1 x 2 hours per week; workshops: 1 x 3 hours per week; laboratories: 2 hours per fortnight.

Prerequisites: Nil.

### **Engineering Design (ENG428)**

Credit Points: 4

Not available this year

In this unit students are exposed to a design task, specialised to each of the engineering disciplines. It is required to adopt a global approach to define a problem, develop a solution and present this in writing and verbally. Project work, sometimes team based, will involve a design task and the development of a solution to the problem. This may take the form of a corporate package, a mathematical formulation, a physical device or an analytical strategy of some kind.

Lectures/tutorials/meetings/laboratories: By arrangement with the Unit Coordinator, academic supervisor and team members.

Prerequisites: Completion of all required third year Engineering units.

Environmental Engineering students should enrol in ENG4281 Engineering Design.

### **Engineering Design Project (ENG457)**

Credit Points: 6

MURDOCH: S2-internal

Students learn to apply the principles of extractive metallurgical project design at pre-feasibility stage including project planning, management, process design, flowsheet development, equipment selection, OHE&S and cost analysis. A written report and oral defence covering all project aspects will be submitted by each student team working on a specified metal/mineral extraction process. The unit is supported by Minerals Tertiary Education Council and is run in conjunction with University of Queensland and the Western Australian School of Mines.

Lectures/tutorials: equivalent to an average of 5 hours per week; project meetings as arranged by the Unit Coordinator.

Prerequisites: Students need to have completed EXM301 Mineral Processing (or both ENG328 Mineral Processing I and ENG329 Mineral Processing II); EXM302 Advanced Mineral Processing (or ENG325/EXM358 Pyrometallurgy); and EXM357 Extractive Metallurgy (or ENG326 Hydrometallurgy); or alternatives approved by the Unit Coordinator.

Exclusions: Students who have successfully completed EXM435 Advanced Topics in Extractive Metallurgy or EXM435 Metallurgical Process and Plant Design may not enrol in this unit for credit.

### **Engineering Finance, Management and Law (ENG336)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides exposure to a range of generic skills and knowledge required for professional engineering practice. To operate effectively engineers require some knowledge of project finance, management of human and financial resources, and the law. Theory and practice of finance, management, copyright, contract and tort law will be examined in the context of typical engineering scenarios. Students will work in groups and individually on research projects. This unit has a strong focus on presentation and justification of results.

Lecture/Presentation: 1 x 2 hours per week; Workshop/Tutorial: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENG417 Engineering Studio: Law, Management and Ethics OR ENG453 Engineering Law, Management and Ethics may not enrol in this

unit for credit.

### Engineering Honours Thesis (ENG470)

Credit Points: 12

MURDOCH: DE2-internal (closed), H-internal, S1-internal, WU3-internal, Y-internal

This unit provides students with a sustained engineering project under the guidance of an experienced supervisor. This capstone unit involves project specification, design, implementation, testing, documentation, demonstration and presentation. Projects will contain significant background research and be selected on the basis of their novelty and innovation. Students may undertake projects on campus or on placement with industry partners. Students must prepare project plans, progress reports, deliver seminars describing outcomes and attend regular meetings with supervisors as required.

Prerequisites: Students must have completed 48 points of Part II units in one of the following majors:

Electrical Power Engineering  
Renewable Energy Engineering  
Chemical and Metallurgical Engineering  
Instrumentation and Control Engineering  
Industrial Computer Systems Engineering  
Environmental Engineering

### Engineering Internship (ENG450)

Credit Points: 12

MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal

This unit provides exposure to industrial engineering projects and involves elements of specification, design, implementation, testing, documentation, demonstration and presentation. The unit brings together all aspects of the student's knowledge, training and skills. Students will prepare a project report, deliver seminars describing the project, and attend meetings with academic and industry supervisors as required.

Meetings: as required.

Prerequisites: Permission of Engineering Academic Chair.

### Engineering Law, Management and Ethics (ENG453)

Credit Points: 4

Not available this year

This unit provides exposure to a wide range of aspects of the practice of engineering. Topics: strategic management -- the management of both human and financial resources; the law -- as it relates to contract and tort, copyright and intellectual property; ethics -- the engineering code of ethics and its operation in engineering practice; professionalism -- the roles and responsibilities of the professional engineer.

Lectures and workshops: 1 x 4 hours per week.

Prerequisites: Completion of 40 or more points at Part II.

Exclusions: Students who have successfully completed ENG417  
Engineering Studio: Law, Management and Ethics may not enrol in this unit for credit.

### Engineering Masters Project (ENG615)

Credit Points: 12

MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal

This project will address a problem of industrial significance, and will involve many aspects associated with the chosen Master of Engineering specialisation. Students will be expected to undertake the analysis, development and upgrade of a significant project. This project may require the student to be stationed at an industrial site.

Meetings/laboratories: by arrangement with the Project Supervisor.

Prerequisites: Enrolment by permission of the Engineering Academic Chair.

### Engineering Systems Projects (ENG396)

Credit Points: 6

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

This unit allows students to extend their studies in a subject area outside of their Engineering major. Its purpose is to develop a thorough knowledge and expertise in certain specific areas of engineering. A range of topics are available.

Lectures/tutorials/meetings: By arrangement with the Unit Coordinator.

Prerequisites: Permission of the Engineering Academic Chair.

### Engineering Technology Project (ENG310)

Credit Points: 3

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This unit involves the undertaking of a design project in an area of Engineering Technology. Students will be expected to demonstrate an understanding of the underlying principles of the task to be done and, under supervision, complete a small scale project, which will require some elements of specification, design, developments and testing. Additionally, students must present their work both verbally and in written form.

Meetings/laboratory work: as required.

Prerequisites: Permission of the Engineering Academic Chair.

### Engineering Thermodynamics (ENG202)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Basic concepts in thermodynamics for steady and unsteady systems, forms of energy and equations of state; properties of pure substances, phase diagrams and phase transitions. Pure components and solutions. Gibbs free energy, fugacity and activity, phase equilibria, electrochemical equilibria. Chemical reaction equilibria. First law of thermodynamics and applications - mass and energy balances in open and closed systems. Entropy and second law of thermodynamics, energy; typical engineering case studies.

Lectures: 1 x 2 hours and 1 x 1 hour per week; workshop: 1 x 1 hour per week; laboratories: 1 x 2 hours per week.

Prerequisites: Completion of all Part I units in the majors Chemical and Metallurgical Engineering, Environmental Engineering or Mineral Science.

Exclusions: Students who have successfully completed the unit PEC201/CHE201 Thermodynamics may not enrol in this unit for credit.

**Engineering Thesis (ENG460)**

Credit Points: 12

MURDOCH: DE2-internal, H-internal, S1-internal, SUM-internal, U-internal, WU3-internal, Y-internal

This unit provides exposure to, and experience with, a significant engineering project, with emphasis upon industrially based projects. Typically this involves elements of specification, design, implementation, testing, documentation, demonstration and presentation. The unit is designed to bring together all aspects of the students knowledge, training and skills developed within Engineering. Each student is required to prepare a substantial thesis together with verbal presentation of the final result.

Meetings with Supervisor: as required.

Prerequisites: Permission of Engineering Academic Chair.

**English and the Curriculum (Secondary) (Major) (EDN413)**

Credit Points: 4

MURDOCH: S1-internal, S1-external

English is a vehicle to empower, negotiate and inspire. In this unit, the understanding of theoretical concepts will be developed to provide a solid foundation from which to effectively plan, teach and assess future students, in English (Secondary). This is done in alignment with the Australian Curriculum. A wide range of strategies and resources will be critiqued and implemented, in order to carefully scaffold and extend all your future students' skills and knowledge, and provide interesting and meaningful tasks.

Lectures: 1 hour per week.

Internal students: workshops: 1 x 2 hours

External students: 2 hours per week of online tasks.

Lectures: 1 hour per week.

Internal students: workshops: 1 x 2 hours

External students: 2 hours per week of online tasks.

Prerequisites: Successful completion of, or enrolment in, EDN221 Learning and Teaching or EDN245/EDN545 Learning and Assessment Processes.

Students also should have completed at least three Part I English units and four Part II English units. For clarification of appropriate prerequisite units, contact the Unit Coordinator.

**English in the Primary Curriculum (EDN565)**

Credit Points: 3

MURDOCH: ST3-internal, ST3-external

Contemporary research drives the core understandings, methods and strategies required to effectively plan, teach and assess English in primary classrooms. The content and resources are guided by national and state curriculum and the professional standards for teachers (graduate level). A diagnostic approach to the teaching of language, literature and literacy will be focus of the unit. Students will develop a balanced perspective of language acquisition theory and its impact across the language modes within the teaching/learning process.

Seminars: 2 hours per week over 10 weeks

Prerequisites: Enrolment in the Master of Teaching (Primary); successful completion of EDN5501 Transition to Teaching and EDN561 Learners and Learning Environments.

Exclusions: EDN2231 or EDN223 Teaching English and Literacy in Primary Schools

**Enterprise Architectures (ICT301)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit builds on the concepts of information systems and their management to which students were introduced in ICT158 and ICT292, exploring them in more depth, particularly in the context of enterprise level IT solutions such as virtualisation, SOA and SaaS. Students will be exposed to more specific IT control and service management frameworks such as COBIT and ITIL. Concepts associated with green computing will be explored. Students will work collaboratively to create a virtual enterprise information technology architecture.

Seminars: 1 x 2 hours per week; laboratories: 1 x 1 hour per week.

Prerequisites: ICT292 Information Systems Management.

**Entrepreneurship and Innovation Management (MBS673)**

Credit Points: 3

MURDOCH: W-internal, W-external

DUBAI-ISC: TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit explores the creation of start-up enterprises and social ventures focusing on opportunity recognition and evaluation, commercialisation of new business ideas, operational sustainability and global scalability of one's supply network, innovation planning, financing and valuation (due diligence). Students will engage in creative problem solving in focus learning groups developing 'hands-on' feasibility plans from scratch to launch a new venture and learn how to pitch and sell their new business.

1. Applied lecture with knowledge test up to 1/2hr per session.
2. Lecture-Seminar with mini-exercises and short cases helping learners apply theory to practice up to 2 1/2 hours per session.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS629 Entrepreneurship and Innovations Management may not enrol in this unit for credit.

**Environmental and Biological Modelling (MAS351)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit will examine in detail mathematical models of population ecology, biochemical kinetics, physiological problems, blood flow and spatial characteristics of the spread of pollutants and of disease as well as applications in groundwater flow and marine science (including ideas from basic oceanography). Mathematical techniques covered may include regular and singular perturbation theory, conservation laws and dimensional analysis, complex variables and partial differential equations. Numerical analysis will be incorporated throughout the unit as it is required.

Lectures: 3 x 1 hours per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS221/MAS208 Mathematical Modelling OR MAS220/MAS261 Mathematical Methods.

Exclusions: Students may not enrol in this unit and any of MAS164 Fundamentals of Mathematics, MAS182 Applied Mathematics, or MAS161 Calculus and Matrix Algebra concurrently. Students who have successfully completed MAS305 Environmental and Biological Modelling cannot enrol in this unit for credit.

**Environmental Architecture Dissertation (PEN673)**

Credit Points: 9

MURDOCH: Y-internal, Y-external

This is a research-based project aimed at integrating environmentally sensitive building design and scientific analysis into practice. It enables the principles developed in the coursework component of the Master of Science in Environmental Architecture to be applied in order to further the knowledge of the field or develop advanced design competency on an environmentally sensitive building design.

No formal contact hours determined.

Prerequisites: Enrolment in Master of Science in Environmental Architecture.

**Environmental Assessment and Management (ENV557)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores the application of science to environmental assessment and management for environmental professional practice. Emphasis is given to policy instruments, environmental decision-making and public engagement. Techniques and challenges in environmental assessment and management at all scales of application from the local to regional, national and international level, and across a range of applications including protected area management, industry, government planning agencies and environmental impact assessment are addressed. Workshops and case studies enable practical, multidisciplinary and interactive learning.

4 x 1 Day (8 hours) lecture/workshop sessions.

Prerequisites: Enrolment in Bachelor Environmental Science or Bachelor Marine Science or Graduate Certificate in Environmental Assessment and Management or Graduate Certificate in Protected Area Administration or Graduate Diploma in Energy and the Environment or Graduate Diploma in Environmental Science.

Exclusions: Students who have successfully completed ENV522 Environmental Assessment and Management may not enrol in this unit for credit.

**Environmental Biology (BIO103)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces the theoretical and practical framework underpinning studies of natural ecosystems. Topics of classifying biodiversity, interactions within the biosphere and human impacts are explored using the unifying themes of the scientific method, the cell theory and evolution. Detailed examples include the near shore marine environment, the freshwater environment and the arid terrestrial environment. Australian case studies illustrate basic principles. Practical work reinforces the environmental theme while building skills in observation, quantification, experimental design and interpreting data.

Lectures: 3 hours per week; laboratories/field work: up to 3 hours per week. (External students undertake take-home exercises in lieu of attendance for laboratories/field work).

External students undertake take-home exercises in lieu of attendance for laboratories/field work

Prerequisites: Nil.

Exclusions: Students who have successfully completed BIO103 Environmental Biology/Introduction to Environmental Biology cannot enrol for credit in this unit.

**Environmental Engineering Design (ENG4281)**

Credit Points: 4

Not available this year

In this unit students are exposed to a design task, specialised to the environmental engineering discipline. It is required to adopt a global approach to define a problem, develop a solution and present this in writing and verbally. Project work, usually team based, will involve a design task and the development of a solution to the problem. This may take the form of a corporate package, a mathematical formulation, a physical device or an analytical strategy of some kind.

Workshop: 1 x 2 hours per week.

There will usually be several site visits off campus that may exceed the 2 hours per week workshop allocation.

Prerequisites: Completion of all required third year units and approval of the Academic Chair of Environmental Engineering

Environmental Engineering students should enrol in ENG4281 Engineering Design.

**Environmental Engineering Design (ENG452)**

Credit Points: 3

MURDOCH: S1-internal

In this unit, students are exposed to a design task that leads to practical implementation. In partnership with industry students define a project, develop a solution and present this by means of modelling, graphically, in writing and verbally. Throughout the unit students are expected to develop skills of project management, options analysis, energy and mass balance modelling, product design, graphical representation, systems engineering, report writing and oral presentation.

Workshop: 1 x 3 hours per week.

Field trip (x2) activities will occur during the timetabled workshop sessions.

Prerequisites: Nil.

**Environmental Management (ENV331)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines how different environments can be managed for different objectives. It aims to help students define and understand some key approaches to environmental management in the public and private sectors. 'Real world' guest speakers and case studies illustrate practical environmental challenges and their management.

The unit adopts a problem solving approach based on applying environmental management principles to practical issues such as nature conservation, tourism and recreation, or industrial production.

Lectures/workshops: Six 3 hour lecture-workshops per semester; tutorials: 2 hours per semester; practical work: 35 hours per semester. All students should note that this unit has a compulsory five-day on-campus component for both external and internal students during one of the 'non-teaching' weeks of semester 2.

All students should note that this unit has a compulsory five-day on-campus component for both external and internal students during one of the 'non-teaching' weeks of semester 2.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV319 Environmental Management may not enrol in this unit for credit.

**Environmental Monitoring (ENV558)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides a conceptual background to the design and implementation of environmental monitoring programs, and practical experience in the collection, analysis, interpretation and reporting of monitoring data. The unit considers physical, chemical, biological and social monitoring; and short and long term programs. Geographical information systems (GIS) and remote sensing are given special attention. While lectures provide background material, practical sessions are focused on applications using varied examples and data sets including use of the GIS software.

Lectures: 2 hours per week; laboratories/tutorials: 3 hours per week.

Prerequisites: Enrolment in Bachelor Environmental Science or Bachelor Marine Science or Graduate Certificate in Environmental Science or Graduate Certificate in Protected Area Administration or Graduate Diploma in Energy and the Environment or Graduate Diploma in Environmental Science.

Exclusions: Students who have successfully completed ENV505 Environmental Monitoring may not enrol in this unit for credit.

**Environmental Policy and Law (ENV328)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is intended to introduce students to environmental policy and the role played by the legal system in environmental protection, planning and management. Students are introduced to the nature of legal systems and the consequent limitations and possibilities for the implementation of environmental policy. Emphasis is given to the Australian and particularly to the Western Australian situation. The development of written communication skills is a priority.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV228 Environmental Policy and Law may not enrol in this unit for credit.

**Environmental Policy for the 21st Century (ENV616)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores environmental policy-making and implementation, particularly the influence of science. The focus is on developing policy relevant to the 21st century by recognising the demands and opportunities of this century. Environmental policy in Australia provides the core of the unit, however attention is also given to policy-making elsewhere. This unit provides insights into policies as an integral part of solutions to environmental problems.

Lectures: 2 hour per week; tutorials: 1 hour per week; student seminars: Up to 10 hours.

Prerequisites: Enrolment in Master-level qualification or Graduate Diploma in Energy and the Environment.

**Environmental Restoration (ENV334)**

Credit Points: 3

MURDOCH: S1-internal (quota of 60 places), S1-external (quota of 60 places)

This unit focuses on the repair of damaged ecosystems and aims to provide an understanding of the concepts and practice of restoration ecology. Students study site-based and landscape-scale restoration, including mine site rehabilitation, plant regeneration, revegetation, plant and animal reintroduction, and landscape design. Students gain experience in developing restoration goals and techniques, the use of reference ecosystems, and design of resilient ecosystems. The unit further engages with the broader socio-economic and decision-making contexts within which restoration activities occur.

Lectures: 2 hours per week; workshop: 1 x 3 hour during the semester.

Practical work (internal only): Mandatory 3-day field trip to Rottne Island and 1-day field trip around Perth region during the first non-teaching week.

Prerequisites: BIO103 Environmental Biology/Introduction to Environmental Biology. Students are strongly recommended to complete ENV268/ENV241 Ecology.

Exclusions: Students who have successfully completed ENV324 Environmental Restoration may not enrol in this unit for credit.

This unit is subject to quota. Space is limited during field practicals and in workshops. Preference will be given to students enrolled in the Environmental Management and Sustainability major.

**Environmental Science Masters Project (ENV600)**

Credit Points: 8

MURDOCH: H-internal, H-external, Y-internal, Y-external

This unit involves students in a supervised, advanced investigation of a selected environmental science topic and is designed to complete the requirements for the Master of Science (Environmental Science). Research topics, generally applied in nature, will be chosen from a list of projects in consultation with the Unit Coordinator and proposed supervisor. The project runs over two semesters.

Tutorials: 6 hours per semester.

Prerequisites: Enrolment in MSc (Environmental Science), or other Masters courses with permission of the MSc (Environmental Science) Academic Chair.

**Environmental Science Masters Project (ENV690)**

Credit Points: 12

MURDOCH: H-internal, H-external, Y-internal, Y-external

This unit involves postgraduate students in a supervised, advanced investigation of a selected topic in Environmental Science or Protected Area Management and is designed to complete the requirements of the Masters degree. Research topics, generally applied in nature, will be chosen from a list of projects in consultation with the Unit Coordinator and proposed supervisor. The project runs over two semesters.

Tutorials: 6 hours per semester.

Prerequisites: Enrolment in Master of Environmental Science or other Masters courses with permission of the Academic Chair for Environmental Science postgraduate coursework.



**Environmental Science Topics (ENV527)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-external

This unit covers topics in environmental science with different themes offered each semester. Topics range from the management of the soil-plant system: land restoration following mining; the recreation ecology of soils and vegetation and managing visitor activity in protected areas. Other topics explore issues that pose challenges to environmental integrity in Australia and globally. This unit gives students the potential to extend their learning to encompass knowledge at the forefront of research in the environmental sciences.

Semester 1: on-campus laboratory and field component: 2 days (during the first non-teaching break); workshops: 3 hours during the semester.

Semester 2: Lectures: 2 hours per week; workshops: 4 x 3 hours during the semester.

Prerequisites: Enrolment in Bachelor of Marine Science or Graduate Certificate in Environmental Assessment and Management or Graduate Certificate in Environmental Science or Graduate Certificate in Protected Area Administration or Graduate Diploma in Environmental Science.

**Environmental Technology for Sustainability (ENG300)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit investigates Appropriate and Environmental Technology and the tools that can be used to achieve their integration into human settlements for sustainable development. It will consider the relationships of technologies with sustainable livelihoods, ecological footprints and climate change mitigation and adaptation. The design and operating principles of various technologies to supply the essential services of water, energy, food, and shelter are studied as well as cross cutting issues of community engagement, behavioural change and resource recovery (waste management).

Lectures: 1 hour per week; Workshop: 1 x 2 hours per week.

Field trip (x2) and laboratory (x2) activities will occur during the timetabled workshop sessions.

Prerequisites: ENV102 Foundations of the Environment or BEN150 Design Concepts or as approved by Academic Chair.

**Environmental Water Chemistry (ENG507)**

Credit Points: 3

MURDOCH: S1-internal

Students will acquire the knowledge of and skills to utilise the most important water chemistry principles and tools with particular emphasis on equilibrium chemical speciation. The quantification of the concentration of chemical species will be emphasised, since this is the differentiator between the benign versus toxic presence of any contaminant in water as well as the determinant whether a co-occurring species affects or is irrelevant to the change in water composition that the treatment engineer is attempting to produce.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

**Epidemiological Studies: Design and Analysis (VET699)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit will provide students with the skills required to design, conduct and analyse epidemiological studies; conduct and interpret risk factor analysis; determine sample sizes and develop and analyse surveys; understand biases in surveys; and develop clinical trials for relevant situations.

Online discussions and online workshops as required.

Prerequisites: Enrolment in Master of Veterinary Studies (Veterinary Surveillance), Master of Veterinary Studies (Conservation Medicine), Doctor of Veterinary Medical Science, Master of Veterinary Clinical Studies, Master of Biosecurity or permission of the Academic Chair.

**Equine General Practice (VET608)**

Credit Points: 4

MURDOCH: ASP3-internal

This unit builds on the skills and knowledge acquired in previous units. The unit provides the veterinary student with the knowledge required to be successful in clinical practice. This unit also provides the foundations for entering the clinical rotations in the final year of the course. This is a comprehensive course with an emphasis on the common problems in equine veterinary practice. The practical component will allow students to develop a basic proficiency in common diagnostic and therapeutic techniques.

Lectures: 3 x 1 hour per week;  
Workshops: 6 x 3 hours per student;  
Tutorials: 2 x 3 hours per student.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

**Equine Medicine I (VET673)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is aimed at veterinarians wanting to further develop their knowledge in the discipline of Equine Medicine. The focus of this unit will be diseases of the gastrointestinal tract. A problem-orientated approach will be utilised and content will include both common and uncommon diseases.

Prerequisites: Enrolment into Master of Veterinary Clinical Studies or enrolment into Doctor of Veterinary Medical Science.

Students must have completed a minimum of 12 months of clinical equine practice since graduation.

**Equine Medicine II (VET674)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is aimed at veterinarians wanting to further develop their knowledge in the discipline of Equine Medicine. The focus of this unit will be diseases of the cardiopulmonary system. A problem-orientated approach will be utilised and content will include both common and uncommon diseases.

Prerequisites: Enrolment into Master of Veterinary Clinical Studies or Doctor of Veterinary Medical Science.

Students must have completed a minimum of 12 months of clinical equine practice since graduation.

**Equine Nutrition and Health (ANS366)**

Credit Points: 3

MURDOCH: S2-internal

This unit will be taught by various experts in the field and will develop knowledge of the theory and practice of equine health and nutrition. Students will also gain an understanding of conformation, exercise physiology, digestion, environmental physiology, hoof/limb care, reproduction and dental care. Practical exercises will introduce students to components of selection, hoof care, dental care and nutritional management, and include field trips.

Lectures: 3 hours per week; practicals/field work: up to 3 hours per week.

Group work to prepare a 10-15 minute oral/Powerpoint presentation on an aspect of 'equine physiological training'.

Prerequisites: ANS102 Introduction to the Animal Body OR BMS107 Foundations of Vertebrate Form.

Exclusions: Students who have successfully completed ANS362 Equine Nutrition and Health may not enrol in this unit for credit.

**Equine Physiology and Behaviour (ANS365)**

Credit Points: 3

MURDOCH: S1-internal

This unit will be taught by various experts in the field and will develop knowledge in the theory and practice of equine physiology, anatomy and behaviour. Students will also gain an understanding of the evolution of horses and human-equine interactions. Practical exercises will introduce students to components of sensory systems, anthropomorphism, ethology, behaviour, and learning theory, including field trips.

Lectures: 3 hours per week, practicals/field: up to 3 hours per week.

Training assignment: group work to prepare a 10 - 15 minute oral/Powerpoint presentation on an aspect of 'equine behavioural training'.

Prerequisites: BMS107 Foundations of Vertebrate Form and Function OR ANS102 Introduction to the Animal Body.

Exclusions: Students who have successfully completed ANS361 Equine Physiology and Behaviour may not enrol in this unit for credit.

**Equine Practice (VET454)**

Credit Points: 4

MURDOCH: YM-internal

The Equine Practice unit is designed to provide the veterinary student with the knowledge base required to be successful in clinical practice. This is a comprehensive course, which, while placing an emphasis on the common problems in equine practice, will also cover the interesting and not so common. The practical component will allow students to develop a basic proficiency in common diagnostic and therapeutic techniques.

Lectures: 5 x 1 hour per week; practicals: 24 hours.

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging.

**Equine Practice, After-Hours and Diagnostic Imaging (VET590)**

Credit Points: 3

MURDOCH: YMV-internal

Equine Practice, After-hours and Diagnostic Imaging provides supported practical training across several areas of veterinary clinical practice including equine, emergency after-hours, and diagnostic imaging.

Approximately 50 contact hours per week of clinical training.

Prerequisites: Pass grades in VET419, VET451, VET453, VET454, VET455, VET457, VET458, VET459, VET463.

Teaching and assessment will commence up to 4 weeks prior to the start of S1 in any year and may conclude up to end of week five of S2.

**Equine Practice, After-hours, and Diagnostic Imaging (VET618)**

Credit Points: 3

Not available this year

Equine Practice, After-hours and Diagnostic Imaging provides supported practical training across several areas of veterinary clinical practice including equine, emergency after-hours, and diagnostic imaging.

**Equity (LLB251)**

Credit Points: 3

MURDOCH: S1-internal

This unit will introduce students to the equitable jurisdiction: its origin, purpose and operation. Students will learn about: the judicature system, equitable maxims, some of the most important doctrines (including equitable estoppel, undue influence, unconscionable transaction, fiduciary obligations and breach of confidence), selected equitable proprietary interests and equitable remedies (including specific performance, injunctions, declarations, equitable compensation and damages in equity). This unit focuses on the role of equity and equitable doctrines in the law of obligations and property law.

Lectures: 2 hours per week; tutorials/workshops: 5 hours per semester.

Prerequisites: Successful completion of all Part 1 units in the LLB, and successful completion/concurrent enrolment in LAW260/LLB260 Contract Law

Exclusions: Students who have successfully completed LAW351 Equity and Trust may not enrol in this unit for credit.

**Essentials of Pharmacology and Chemotherapy (BMS317)**

Credit Points: 3

Not available this year

This unit provides an introduction to the principles of pharmacology which is followed by the systematic study of the drugs that are used for common conditions. This includes antibiotics and the drugs of the autonomic nervous system, drugs that act centrally and those that interact with autacoids, and the renal and cardiovascular systems. Components of the unit will be presented using lectures, practicals, workshops and seminars.

Lectures: 4 hours per week; tutorials/workshops/seminars: 2 hours per week.

Practicals are intended to provide real world application. One

example includes calculating drug doses and then working with tablets, needles and syringes to obtain the drugs into forms ready for administration and/or dispensing. Another example is a practical where spectrophotometry is used to determine drug concentrations. This information is then used to investigate the suitability for market of a hypothetical drug.

Prerequisites: BMS264 Biomedical Physiology and either BMS261 Human and Comparative Biochemistry or BIO270 Biochemistry 1. Recommended: BMS203 Comparative and Human Microbiology, BIO252 Immunology, Vaccines and Cell Culture/Immunology and Vaccination.

Exclusions: Students who have successfully completed BMS365 Essentials of Pharmacology and Chemotherapy may not enrol in this unit for credit.

### **Ethics (THE624)**

Credit Points: 3

MURDOCH: S2-external

An introduction to the principal patterns of theological reflection on the moral dimension of life and their relation to moral philosophy. Particular attention will be given to the ideas of natural law, the will of God, conscience and responsibility, and to the ethical significance of faith, hope and love. Moral issues of continuing and current concern will be considered in the light of the different patterns of thought and ideas, especially in the tutorial sessions.

Seminars: 2 hours per week

Prerequisites: Enrolment in graduate level study.

### **Ethics and Global Justice (SWM621)**

Credit Points: 3

Not available this year

This unit focuses on questions of global justice and public ethics: Do corporations have moral responsibilities? Who is blameworthy for collective harms such as environmental degradation or climate change? When are humanitarian interventions morally justified? Students will develop their analytic and critical thinking skills through examining problems from a moral point of view. The topics covered include collective responsibility, tragedies of the commons, global distributive justice and the ethics of political violence.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed SSH621 Professional Ethics may not enrol in this unit for credit.

### **Ethics and Jurisprudence (CHI581)**

Credit Points: 2

MURDOCH: T2-internal

This unit integrates chiropractic practice with appropriate professional ethics required of primary contact health professionals. It includes ethical considerations of the rights and responsibilities of both the practitioners and the patients. Emphasis is placed on risk management, informed consent, record keeping, legal issues in health care, ethics in general and principles of medical ethics, the patient-doctor relationships, and writing a medical-legal report.

Lectures: 2 hours per week; workshops: 2 hours per week.

Prerequisites: Completion of BSc (Chiropractic) or permission of the Academic Chair.

### **Ethics and Professional Responsibility (LLB468)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The unit introduces students to key ethical approaches, ethical reasoning and decision making. It focuses on the application of legal ethics and professional responsibility, and the role of Lawyers in their interaction with clients, the courts and wider community. It also examines the regulatory framework and ethical challenges facing the legal profession.

Lectures: 3 hour per week. Workshops 5 x 2 hours fortnightly

Prerequisites: BJU300 Legal Theory and Research.

Exclusions: Students who have successfully completed LAW368/LAW468 Ethics and Professional Responsibility may not enrol in this unit for credit.

### **Ethics, Jurisprudence and Professional Practice Management (CHI467)**

Credit Points: 3

Not available this year

This unit integrates practice with appropriate professional business ethics required. It includes ethical considerations of the rights and responsibilities of both the practitioners and the patients. Emphasis on risk management, legal issues in health care, the patient-doctor relationships, and medico-legal reports. The business aspect of the Unit introduces practice management, exploring concepts including startup, contract law. Business theory will cover practice location, business finance, loans, hiring staff, marketing and policy and procedures.

Lectures: 3 hours per week; Workshop: 3 hours per week

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1-4.

### **Europe Under the Dictators (HIS259)**

Credit Points: 3

Not available this year

This unit explores European history from the Russian Revolution to the Second World War by focusing on the brutal dictatorships that emerged in Bolshevik Russia, the Stalinist Soviet Union, Fascist Italy and Nazi Germany. Key themes include: communist and fascist ideology; personalities of the dictators (Lenin, Stalin, Mussolini and Hitler); the role of terror, state violence and resistance in everyday life; the responses of women and minorities; the nature of the Second World War; and the Holocaust.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who previously completed HIS293 Europe Under the Dictators are not eligible to take this unit.

### **European Union Law (LLB342)**

Credit Points: 3

IMACERATA: S2G-internal

Introduces students to the legal system of the European Union (EU) with emphasis on the constitutional, administrative and commercial aspects. The political and economic origins of the EU will also be discussed, along with the relationship between Community Law and the laws of the member States, and the free movement of goods, workers, capital and services. The unit will concentrate on the transnational protection of economic and social rights and the jurisprudence of the European Court of Justice.

Lectures: 24 hours taught intensively in the winter break in Macerata.

Prerequisites: Successful completion of all Part I units in the LLB, and successful completion LLB259/LAW259 Constitutional Law.

Exclusions: Students who have successfully completed LAW342 European Union Law may not enrol in this unit for credit

The S2G enrolment option for this unit is offered as part of the European Summer Program in Law, hosted at the University of Macerata, Italy. Enrolment in this program is by application to the Program Director, and applications require payment of a deposit. Students enrolling in the program are responsible for their own airfares, accommodation and incidental expenses during the program. Contact the School of Law for further information.

### Events, Policy and Evaluation (TOU324)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal, TSA-internal

Managing events and festivals is an eclectic task, from event design and marketing to managing visitors and the community. Planning and public policy approaches seek to recognise the positive and negative impacts of the event or festival on the community stakeholders with the aim of increasing the positive and mitigating the negative impacts. A key aspect of policy implementation is evaluation. This unit considers Public Policy and the Evaluation approaches that address the outcomes of that policy.

Blended learning delivery with 24-30 hours of workshops.

Some Group work, possible field trips.

Prerequisites: TOU201/TOU221 Sustainable Tourism

Exclusions: Students who have previously completed TOU304 Events and Festivals Management or TOU304 Events Policy and Evaluation, cannot enrol in this unit for credit

### Evidence (LLB352)

Credit Points: 3

MURDOCH: S2-internal

This unit, which spans both the Commonwealth and Western Australian jurisdictions, deals with the rules affecting the admissibility of evidence and the examination of witnesses. These rules will be explored within the framework of the trial process. For assessment in the unit students will be required to interpret the statutes relevant to each jurisdiction and apply them in the construction of a trial. The unit also introduces students to the Professional Conduct Rules and the ethical obligations governing practitioners.

Lectures: 3 hours per week; tutorials/workshops: 10 hours per semester:

Prerequisites: Successful completion of all Part 1 units in the LLB; LLB260/LAW260 Contract Law

Exclusions: Students who have successfully completed LAW252 Evidence may not enrol in this unit for credit.

### Evidence Based Nursing Practice (BNR200)

Credit Points: 3

MURDOCH: S1N-internal  
MANDURAH: S1N-internal

This unit introduces students to the concept of evidence based practice and its application to health and clinical care, as well as the research process and the principles of qualitative and quantitative methodologies. Students will examine evidence based case studies

to understand how clinical problems can be addressed and clinical knowledge expanded using research and evidence based practice. Students will be encouraged to engage with and critique the current evidence base of clinical practices.

Lecture: 1 hour per week; Tutorials: 2 hours per week.

Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system.

Prerequisites: Enrolment in Bachelor of Nursing, completion of all Year 1 Nursing units.

Exclusions: Students who have successfully completed NUR363 may not enrol in this unit for credit.

### Evidence-Based Clinical Practice (VET694)

Credit Points: 3

Not available this year

This unit explores the application of evidence-based practices in areas of veterinary clinical problem solving such as the diagnosis and treatment of disease. Students will develop skills in diagnostic reasoning and learn about diagnostic error. Students will learn how to critically evaluate clinical case reports and research papers and understand how to use this information when making clinical management decisions.

External. Arrangements made with the Unit Coordinator.

All students will have contact time arrangements made with the Unit Co-ordinator.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022) or Master of Veterinary Clinical Studies (M1223) or Master of Veterinary Studies (Conservation Medicine) (M1122) or Research Masters (with Training) or Doctor of Veterinary Medical Science (D1061) programs.

For students enrolled in the Master of Veterinary Studies (Small Animal Practice) (M1022) this unit must be taken within the first year or within the first 6 points of enrolment in the course.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### Evolutionary Analysis (BIO379)

Credit Points: 3

MURDOCH: S2-internal

This unit provides an in-depth analysis of evolutionary concepts, the unifying principles in modern biology. It focuses on the theoretical basis of evolution and explores how evolution can be studied. Topics include: evidence for evolution, mechanisms of evolution, phylogenetic analysis, evolutionary strategies in survival and reproduction, evolution of breeding systems, sexual selection and patterns of macroevolution. Students will develop their skills in conceptual and critical thinking, ability to integrate information across all biological disciplines and research and writing skills.

Workshops/Tutorials: 4 hours per week.

A research-based project will run for the entire semester. The time spent on this project will be scheduled in consultation with the project supervisor, but will be in the order of approximately 4 hours per week, including some of the timetabled project workshop hours.

Prerequisites: BIO356/BIO372 Genetics and Evolution.

Exclusions: Students who have successfully completed BIO369 Evolutionary Biology or BIO369 Evolution and Conservation may not enrol in this unit for credit.

**Exercise Physiology I (EXS202)**

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on five basic fundamentals of exercise physiology. Course material will be presented in both a lecture and laboratory series focusing on: 1) metabolism and exercise, 2) cardiovascular response to exercise, 3) pulmonary response to exercise, 4) the muscular system and movement, 5) hydration and thermoregulations, 6) VO<sub>2</sub>max and fitness, and 7) enhancing fitness and health through physical activity.

Lectures/tutorials: 2 hours; laboratories: 2 hours.

Prerequisites: BMS101 Introduction to the Human Body or EXS102 Human Physiology.

Exclusions: Students who have already successfully completed EXS226/CHI226 Exercise Physiology I may not enrol in this unit for credit.

**Exercise Physiology II (EXS302)**

Credit Points: 3

MURDOCH: S2-internal

This unit will discuss physiological responses to exercise and exercise training and detraining. This unit will incorporate physiological responses to exercise in special populations, special environments and in response to dietary supplements and changes in diet. The students' outcomes will address these responses from a molecular, cellular, tissue, organ and systems perspective, and will then integrate each of these levels to describe the overall changes occurring within the body. This unit will involve theory based presentations and practical lab demonstrations.

Lecture: 2 x 1 hour; Practical: 1 x 2 hours.

Prerequisites: CHI226/EXS226/EXS202 Exercise Physiology I.

Exclusions: Students who have successfully completed CHI/EXS227 Exercise Physiology II may not enrol in this unit for credit.

**Exercise Physiology Practicum (EXS509)**

Credit Points: 6

MURDOCH: Y1-placement (quota of 40 places)

The student will develop their 'hands on' training and experience within this unit. This unit will enable students to work alongside health professionals, and in particular, ESSA accredited Exercise Physiologists. This unit will enable the student to see the transfer of knowledge from the classroom into the workplace, with the specific emphasis being on the delivery of exercise to clinical populations. This unit is a year-long practicum unit.

Workshops: 2 hours in first teaching week of January each year

a. Students must complete a minimum of 360 hours in a clinical setting in accordance with the Exercise and Sports Science Australia (ESSA) requirements. This will be arranged in consultation with the Unit Coordinator.

b. Students will be required to complete a series of online modules throughout the year.

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys and completion of years 1-3.

Exclusions: Students who have successfully completed CHI570/EXS570 Exercise Physiology Practicum may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to limited availability of practical placements. Enrolment in G1073 Graduate Diploma in

Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys.

**Exercise Physiology Practicum (EXS570)**

Credit Points: 12

MURDOCH: Y1-placement

Students will develop their 'hands on' training and experience within this unit. This unit will enable students to work alongside health professionals and, in particular, ESSA accredited Exercise Physiologists. This unit will enable the student to see the transfer of knowledge from the classroom into the workplace, with the specific emphasis being on the delivery of exercise to clinical populations. This unit is a year-long practicum unit.

Students must complete a minimum of 360 hours in a clinical setting in accordance with the Exercise and Sports Science Australia (ESSA) requirements. This will be arranged in consultation with the Unit Coordinator.

Prerequisites: CHI208/EXS208/EXS203 Health, Fitness and Performance Assessment, CHI318/EXS318/EXS303 Exercise Programming and Prescription, CHI227/EXS227/EXS302 Exercise Physiology, CHI328/EXS328/EXS306 Physical Assessment and Rehabilitation, CHI330/EXS330/EXS305 Advanced Skills and Motor Control, CHI390/EXS390/EXS309 Exercise Science Practicum.

Exclusions: Students who have successfully completed CHI570 Exercise Physiology Practicum may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

**Exercise Science Practicum (EXS309)**

Credit Points: 3

MURDOCH: H-placement, Y-placement

Students will be able to experience the requirements of employment in an exercise physiology-related workplace during practicum placements. Students will utilise knowledge and skills gained in previous years during supervised practicum in the area of exercise delivery for apparently healthy clients. Communication and professionalism skills will also be developed in this unit.

Seminars/workshops: 1 hour per week in Week 1 of Semester 1; Practicum: A minimum of 140 hours to be completed over the duration of this unit.

Prerequisites: CHI225/EXS225/EXS103 Principles of Strength and Conditioning; and CHI208/EXS208/EXS203 Sports and Health Assessment. Students must be enrolled in B1317 double major (Sport and Health Science/ Movement Science) OR B1336 Bachelor of Science/Graduate Diploma in Clinical Exercise Physiology.

Exclusions: Student who have successfully completed CHI390/EXS390 Exercise Science Practicum may not enrol in this unit for credit.

This unit was created for students undertaking the double major Sport and Health Science and Movement Science.

A result of Ungraded Pass or Fail is awarded for this unit.

**Exercise Science Practicum (EXS390)**

Credit Points: 4

MURDOCH: H-placement, Y-placement

Students will be able to experience the requirements of employment in an exercise physiology related workplace during practicum placements. Students will utilise knowledge and skills gained in previous years during supervised practicum in the area of exercise delivery for apparently healthy clients. Communication and professionalism skills will also be developed in this unit.

Seminars/workshops: 1 hour per week in Week 1 of Semester 1;

Practicum: A minimum of 140 hours to be completed over the duration of this unit.

Prerequisites: EXS103/ CHI225/ EXS225 Principles of Strength and Conditioning and EXS203/ CHI208/ EXS208 Sports and Health Assessment.

Exclusions: Student who have successfully completed CHI390 Exercise Science Practicum may not enrol in this unit for credit. Students who are enrolled in EXS309 may not enrol in this unit.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Exercise, Programming and Prescription (EXS303)**

Credit Points: 3

MURDOCH: S1-internal

This capstone unit will build on previous study focused on client and athlete assessment. Students will learn how to develop exercise programs and prescriptions for health-related benefits in apparently healthy and low-risk individuals as well as individuals with various health conditions. Student will utilise knowledge and skills gained throughout the Sports and Health Science Major to design and implement individualised exercise and lifestyle programs whilst developing a capstone project demonstrating and applying that knowledge in the real world.

Lectures: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: EXS203 Health, Fitness and Performance Assessment or CHI208 Health, Fitness and Performance Assessment and EXS202 Exercise Physiology I or CHI226 Exercise Physiology I and EXS103 Strength and Resistance Training; or EXS225 Strength and Resistance Training or CHI225 Principles of Strength and Conditioning.

### **Existentialism (PHL207)**

Credit Points: 3

Not available this year

The Existentialists, donning black berets and smoking cigarettes, gathered in the Parisian cafes of the 1930s to ponder the meaning of existence. This unit explores the history of Existentialism, including its origins in the work of Soren Kierkegaard and Friedrich Nietzsche, through Fyodor Dostoevsky, Jean-Paul Sartre, Simone de Beauvoir and Albert Camus to the present. We will explore how the problems addressed by these philosophers are relevant to our lives today.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Internal students complete two 45 minute quizzes, one in mid-term, one at end of term; external students complete a final exam.

Prerequisites: Nil.

Exclusions: Students who have successfully completed PHL201 Existence and Freedom may not enrol in this unit for credit.

### **Experimental Physics and Nanotechnology (PEN363)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will provide students with an excellent opportunity to gain valuable hands on experience with advanced instrumentation used in Physics and Nanoscience/Nanotechnology. This includes laboratory based experiments as well as using a variety of surface science equipment, scanning electron microscopes and scanning tunnelling/atomic force microscopy. Students will also be taught various advanced technology used in the manufacture and purification of nanostructured materials.

Lectures: 1 hour per week; Tutorials: 1 hour per week; Laboratories: 1 x 4 hours per week for 10 weeks.

Visit to other Laboratories and R&D facilities in Perth.

Prerequisites: PEN261 Applications of Nanotechnology.

Hands-on Experimental Skills.

### **Expressive Arts Therapies: Music, Drama and Writing (CSL575)**

Credit Points: 3

MANDURAH: S2-internal

Expressive Arts Therapies provide a context for the intentional use of expressive arts processes for therapeutic goals; allows non-verbal and written narrative to be expressed in a counselling context; and facilitates the exploration of connections between clients' internal psychological experiences and their outward creative expression. This experiential unit is designed to teach and develop a theoretical and practice-based understanding of the expanding field of expressive arts therapies.

3 hour workshop per week

Prerequisites: Enrolment in the Graduate Diploma in Creative Arts Therapies. Other students wanting to study this unit can be interviewed by the Counselling Academic Chair.

### **Extension to Veterinary Biology 1 (EQU031)**

MURDOCH: S1-internal

This unit extends and consolidates the students' discipline specific study skills and understanding of VET260 and VET271 Veterinary Structure and Function I, and II; Anatomy; VET272 Comparative Mammalian Biochemistry and VET210 Veterinary Professional Life I.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering Veterinary Science through the Waardong program.

### **Extension to Veterinary Biology 2 (EQU032)**

MURDOCH: S2-internal

This unit extends and consolidates the student's discipline specific study skills and understanding of VET273 and VET274 Veterinary Structure and Function III and IV, and VET211 and VET278 Principles of Infectious Disease I and II.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering Veterinary Science through the Waardong program.

### **Extension to Veterinary Biology 3 (EQU033)**

MURDOCH: S1-internal

This unit extends and consolidates students' discipline specific skills and understanding of VET375 Processes in Animal Disease, VET380 Veterinary Nutrition and Animal Toxicology, VET333 Animal Behaviour and Welfare and VET331 Introduction to Clinical Practice.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

**Extension to Veterinary Biology 4 (EQU034)**

MURDOCH: S2-internal

This unit extends and consolidates students' discipline specific skills and understanding of VET377 Systemic Pathology and Medicine, VET392 One Health and VET301 Principles of Surgery and Anaesthesia.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

**Extension to Veterinary Biology 5 (EQU035)**

Not available this year

This unit extends and consolidates students' discipline specific skills and understanding of VET343 Veterinary Applied Pathology, VET345 Veterinary Pharmacology and Chemotherapy and VET442 Animal Systems III.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program, and are in the third year of the veterinary course.

**Extractive Metallurgy (EXM357)**

Credit Points: 4

Not available this year

This unit considers the principles and applications of hydrometallurgical and pyrometallurgical processing to produce metals and value added products relevant to local/global industry. The application of pre-treatment, leaching, solution purification and metal recovery to the hydrometallurgical processing of metals, ores, and concentrates is covered. Pyrometallurgical processes such as roasting, smelting and refining are also examined. Application of thermodynamic and kinetic concepts, fluid dynamics and heat- and mass-transfer principles to extractive metallurgy are considered and demonstrated using laboratory exercises.

Lectures: 1 x 2 hours and 1 x 1 hour per week;  
laboratories/workshops: up to 4 hours per week.

External: Unit Study Guide provided. Internet access and compulsory 3-day on-campus laboratory session. Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of each teaching period.

Prerequisites: CHE/PEC201 Thermodynamics and EXM224 Principles of Unit Operations, or enrolment in G1034 Graduate Diploma in Extractive Metallurgy.

**Extractive Metallurgy I (ENG527)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Covers high temperature metallurgical processes such as roasting, smelting and refining. The relevant unit processes are examined through consideration of: thermodynamics and kinetics of interactions which occur among individual phases (i.e. gases, solids, metals, mattes and slag), fluid dynamics, heat-transfer and mass transfer characteristics, different reactors and techniques used to carry out these processes. References to industrial practice for production of materials such as copper, nickel, zinc, lead, gold, aluminium, tin, silicon, iron and steel will be made.

Lectures: 3 hours per week.

Prerequisites: Students need to have completed EXM524/ENG524 Metallurgical Unit Operations and ENG565 Mineralogy for Metallurgists prior to enrolling in this unit.

Exclusions: Students who have completed EXM302/EXM505 Advanced Mineral Processing or ENG325 Pyrometallurgy are not eligible to enrol in this unit for credit.

**Extractive Metallurgy II (ENG528)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers metallurgical processes taking place in an aqueous environment. It considers the principles and applications of pre-treatment, leaching, solution purification and concentration using solvent extraction, ion exchange, carbon adsorption, precipitation and metal recovery using electrowinning/refining for the production of metals or value added commodities using hydrometallurgical processing of ores and concentrates. It also considers practical industrial processes, and discusses overall processes for the recovery of gold, copper, nickel, uranium etc. related to the Australian and global mineral industry.

Lectures: 3 hours per week.

Prerequisites: Students need to have completed ENG524 Metallurgical Unit Operations and ENG565 Mineralogy for Metallurgists prior to enrolling in this unit.

Exclusions: Students who have completed EXM357/EXM557 Extractive Metallurgy or ENG326 Hydrometallurgy are not eligible to enrol in this unit for credit.

**Facilitating Lifelong Learning (EDN540)**

Credit Points: 6

MURDOCH: S1-internal, S1-external

Promotes an understanding of what facilitates adult and lifelong learning in education, workplace and community. There will be opportunity to develop knowledge and skills for reflective professional practice and action research to support your professional growth. We will discuss cognitive and sociocultural approaches to understanding learning and motivation and how to use this knowledge to design effective instruction, mentoring, team work, course evaluation and assessment of learning. There is a strong focus your own professional development as adult educator.

Internal: workshops: 1 x 3 hours per week

External: No attendance required. Some on-campus meetings will usually be available.

Internal: workshops: 1 x 3 hours per week

External: No attendance required. Some on-campus meetings will usually be available.

Prerequisites: Enrolment in a graduate level course (or higher).

Exclusions: Students who have successfully completed E246/E2461 Facilitating Lifelong Learning OR EDU240/2401/440 Facilitating Lifelong Learning may not enrol in this unit for credit.

**Factual Production (SCR303)**

Credit Points: 3

MURDOCH: S1-internal

Factual Production is the largest field of Screen Production! From Docos to Reality TV, from client to broadcast production - this unit will empower you to be prepared for the workforce. Students make a factual production for a client, and shoot a live event. Students will develop core industry skills and business practices for live, online, or broadcast. They will also learn chromakey, virtual set, and After Effects. Factual Production is recommended for



students who wish to set up their own production business.

Seminars 2.5 hour weekly seminars/workshops (combined)

In the unit, students will work on a number of group based productions on the field. They will be also required to shoot a real live events production as part of their final assessment.

Prerequisites: MCC128/SCR101 Screen Production 1;

### **Faith, Conflict, and Human Rights (REL202)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Religious faith continues to influence and shape modern twenty-first societies. While some may regard religion as the cause of conflict, terror, and war, others locate in it the transcendent source of ethics, justice and rights. Yet religion itself is notoriously difficult to define, let alone understand. In this unit, students will explore the significance of religious faith, and its relationship to conflict and human rights.

Seminar: 2 hours per week

Prerequisites: Nil.

### **Family Law (LLB370)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces students to the state and federal laws that regulate the formation and dissolution of legal and de facto marriages and which assist in resolving ancillary disputes. Topics covered include: marriage, divorce, parentage, parenting disputes, property settlement, child support and spousal maintenance. In particular, we consider in detail the interpretation of the most important aspects of the Family Law Act 1975 (Cth).

Lectures: 24 hours per semester (this may be 2 hours per week but alternatively may be spread across the semester in irregular intensive blocks).

Prerequisites: Successful completion of LLB253 Property A and LLB254 Property Law B Or LAW253 Property (pre 2015); or completion of LLB253 Property A and concurrent enrolment in LLB254 Property B.

Exclusions: Students who have successfully completed LAW370 Family Law may not enrol in this unit for credit.

### **Family Law Clinic (LLB386)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit is a clinical legal education unit which allows students to put their legal knowledge into practice within an active community-based family law practice. Students will interview clients, research and formulate advice and assist the client in mediation and other legal processes all under the close supervision of our family law practitioners.

2 hour seminars in Week 6,8,10 and 12

1 full day attendance at the Law Clinic and otherwise as required. Contact times will vary: contact Unit Coordinator for further information.

Prerequisites: Successful completion of all Part I units in the LLB, and LLB308 Introduction to Legal Practice.

Exclusions: Students who have successfully completed LAW386 Family Law Clinic may not enrol in this unit for credit.

Students need to complete an Expression of Interest to apply for enrolment in this unit. For more information please contact the

School of Law office.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Festivals and Events (TOU232)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

The aims of this unit are to gain an understanding of the complexities of Event Studies. It examines the application of theoretical frameworks from the field and also gives experience in the planning and analysis of various event types. Events ranging from the community level to the global are used as case studies and students are also expected to design their own community event as part of the assessment process.

Lectures: 1 x 90 minutes; tutorials: 1 x 1 hour weekly.

Prerequisites: Nil.

Exclusions: Students who have successfully completed TOU212 Festivals and Events may not enrol in this unit for credit.

### **Final Professional Experience 1: Early Childhood Teaching (K - PP) (EDN434)**

Credit Points: 3

MURDOCH: ST2-placement, ST3-placement

Students undertake a three-week block of school-based placement in an early childhood setting in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship: Early Childhood Teaching (K-PP).

Three weeks of full-time block placement in a school. One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education Early Childhood and Primary Teaching OR Bachelor of Education Early Childhood 0-8. Successful completion of EDN4100 Professional Experience: Programming Across the Curriculum OR EDU3154 School Experience: Primary BEd,, and all other course requirements prior to commencing the Final Profession Experience unit.

Exclusions: BEd (Primary) students who are not enrolled in Early Childhood Education.

Students who have successfully completed EDU379 Professional Internship Prelim: Primary BEd/ECE may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged

A result of Ungraded Pass or Fail is awarded for this unit.

### **Final Professional Experience 1: Primary Teaching (EDN4302)**

Credit Points: 3

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their



Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship. This unit gives students opportunities to apply their theoretical understandings of teaching and develop their level of professional competence in a secondary school setting. It aims to nurture the development of the reflective practitioner and provide opportunities to experience the professional responsibilities associated with teaching.

Three weeks of full-time block placement in a primary school. One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (B1319) Primary Teaching or Primary 1-10 Health and Physical Education. Successful completion of EDN4100 Professional Experience: Programming Across the Curriculum OR EDU3154 School Experience: Primary BEd, and co enrolment in EDN4300 Final Professional Experience 2: Primary Teaching.

Exclusions: Students enrolled in Bachelor of Education Early Childhood 0-8, the BEd (Secondary) or Secondary GradDipEd may not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Final Professional Experience 1: Secondary Graduate Diploma (EDN511)**

Credit Points: 3

MURDOCH: ST2-placement, ST3-placement

Three weeks of full-time block placement in a secondary school. One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of the Graduate Diploma in Education (Secondary). Students must have successfully completed 18 points including EDN550, EDN545, EDU621 and at least one of the following Teaching Area units: EDN552; EDN553; EDN554; EDN556; EDN557 or EDN558. Completion / concurrent enrolment in EDN509.

Exclusions: Students enrolled in any Bachelor of Education.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Final Professional Experience 1: Secondary Teaching (EDN4303)**

Credit Points: 3

Not available this year

This unit gives students the opportunity to consolidate their theoretical understandings of teaching and develop a high level of professional competence in a Secondary School setting. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher. On completion of the unit, students will be expected to show progress towards achievement at the Graduate level in each of the Australian Graduate Standards for Teachers.

Prerequisites: Enrolment in the final semester of a Bachelor of Secondary Teaching. Students will be required to have successfully completed all the required units.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Final Professional Experience 2: Early Childhood Teaching (K - PP) (EDN435)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical knowledge and develop a high level of professional competence in an early childhood setting. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a secondary school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education Early Childhood and Primary Teaching OR Bachelor of Education Early Childhood 0-8. Concurrent enrolment in EDN434 Final Professional Experience 1: Early Childhood Teaching.

Exclusions: BEd (Primary) students who are not enrolled in Early Childhood Education.

Students who have successfully completed EDU381 may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Final Professional Experience 2: Primary Teaching (EDN4300)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement, ST4-placement

This unit gives students the opportunity to consolidate their theoretical understandings of teaching and develop a high level of professional competence in a Primary School setting. It aims to

nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher. On completion of the unit students will be expected to show evidence of achievement at the Graduate level in each of the Australian Graduate Standards for Teachers.

Seven weeks full-time block placement in a secondary school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (B1319) Primary Teaching or Primary 1-10 Health and Physical Education. Students are required to have successfully completed EDN4100 Professional Experience: Programming Across the Curriculum OR EDU3154 School Experience: Primary BEd, and all other course requirements prior to commencing the Final Professional Experience units.

Exclusions: Students enrolled in Bachelor of Education Early Childhood 0-8, the BEd (Secondary) or Secondary GradDipEd may not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Final Professional Experience 2: Secondary Graduate Diploma (EDN510)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical understandings of teaching and develop a high level of professional competence in a Secondary School setting. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher. On completion of the unit students will be expected to show evidence of achievement at the Graduate level in each of the Australian Graduate Standards for Teachers.

Seven weeks full-time block placement in a secondary school.

Seven weeks full-time block placement in a secondary school.

Prerequisites: Enrolment in the final semester of the Graduate Diploma in Education (Secondary). Students must have successfully completed 18 points including EDN550, EDN545, EDU621 and at least one of the following Teaching Area units: EDN552; EDN553; EDN554; EDN556; EDN557 or EDN558. Completion / concurrent enrolment in EDN509 and EDN511.

Exclusions: Students enrolled in the BEd (Secondary)/BA or the BEd (Secondary)/BSc should not enrol in this unit. Students who have successfully completed EDU297 Professional Internship: Secondary GradDipEd may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Final Professional Experience 2: Secondary Teaching (EDN4301)**

Credit Points: 6

Not available this year

This unit gives students the opportunity to consolidate their theoretical understandings of teaching and develop a high level of professional competence in a Secondary School setting. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher. On completion of the unit students will be expected to show evidence of achievement at the Graduate level in each of the Australian Graduate Standards for Teachers.

Seven weeks full-time block placement in a secondary school.

Prerequisites: Enrolment in the final semester of the Bachelor of Education (Secondary). Students must have successfully completed all other required teaching and school experience units, including the relevant Final Professional Experience 1: Secondary Teaching. Completion of the relevant Professional Internship (Preliminary) unit in the same semester will be expected.

Exclusions: Students enrolled in Secondary GradDipEd should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Finance Law (BSL201)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit examines areas of particular relevance to the finance and banking industries. Topics studied include key Australian financial system regulators, fundraising by issue and sale of securities, managed investment schemes, loan finance, regulation of consumer credit, debenture and note finance and takeovers, Anti-money laundry provisions. Regulation of financial services and markets and the financial services licensee/client relationship are also a focus.

Lectures/workshops: 2 hours per week over 12 weeks.

This teaching pattern is applicable for offerings at Murdoch South Street, and Dubai - ISC

Kaplan - SGP the teaching pattern will be 4 hours per fortnight over 12 weeks.

Online learning experiences

Prerequisites: Successful completion of BSL165 Foundations of Business Law / BUS165 Principles of Commercial Law.

Exclusions: Students enrolled in the Bachelor of Laws LLB, or students who have previously completed BUS206 / BSL206 Finance Law may not enrol in this unit for credit.

### **Finance Law (BUS206)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit examines areas of particular relevance to the finance and banking industries. Topics studied include key Australian financial system regulators, fundraising by issue and sale of securities, managed investment schemes, loan finance, regulation of consumer

credit, debenture and note finance and takeovers. Regulation of financial services and markets and the financial services licensee/client relationship are also a focus.

Lecture: 2 hours per week; tutorial: 1 hour per week.

Prerequisites: Successful completion of BUS165 Principles of Commercial Law / BSL165 Foundation of Business Law

Exclusions: Students enrolled in the Bachelor of Laws (LLB), OR who have successfully completed BSL206 Finance Law may not enrol in the unit for credit.

### **Financial Management Decision Making (MBS536)**

Credit Points: 3

MURDOCH: S1-internal

Sound financial management and decision making is key to the success of any organisation in terms of their quantitative and qualitative performance indicators. An understanding of the financial reporting process and the key outputs of such a process including the preparation and presentation of the Income Statement, Balance Sheet and Cash Flow Statements represents the introduction of this unit.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

### **Financial Management Decision Making (SWM532)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Sound financial management and decision making is key to the success of any organisation in terms of their quantitative and qualitative performance indicators. Whether it is the public sector or private sector, an understanding of the financial reporting process and the key outputs of such a process is vital. This unit will examine the financial management decision making processes predominantly relating to the public sector including the preparation and presentation of performance and position reports, cash flow statements and budgets.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS536 Financial Management Decision Making may not enrol in this unit for credit.

### **Financial Management in Health Care (SHP639)**

Credit Points: 3

MURDOCH: S1-external

This unit is designed to foster knowledge and understanding of concepts, principles and practices of health care funding and how this translates to financial management in a range of health care settings. Students will develop an understanding of effective and practical approaches to financial management and how this is linked to organisational strategy and sustainability. The unit explores financial management in healthcare at the strategic funding level, the organisational level and at the manager level.

External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR639

Financial Management in Health Care may not enrol in this unit for credit.

### **Fingerprinting and Impression Evidence (BIO598)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides students with the knowledge and scene-based skills to develop, recognise documentation, preservation, collect and analysis of latent fingerprints and footwear and tyre mark impression evidence. Chemical, physical and visual enhancement techniques will be taught and practised together with a discussion of criminal database construction and searching in the investigation of crimes. The practical sessions will be operated, supervised and mentored by WA Police forensic experts in fingerprints and impression evidence.

Lectures/ workshops: 20 hours over 7 teaching weeks. Practical work or equivalent: 21 hrs over 7 weeks. 1 x mock scene: 6hrs. 1 x field trip: 6hrs.

Prerequisites: Enrolment in the Graduate Certificate in Forensic Science (Professional Practice) or Master of Forensic Science (Professional Practice).

### **Fire and Explosion Safety (ENG518)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Determining the cause of a fire or explosion involves the re-creation of the fire spread through a building, which requires the application of: combustion science; fluid dynamics and heat transfer; physical metallurgy; strength of materials; architectural design; computer simulation; inventory auditing and interviewing skills. This unit is designed to show how professionals use these concepts and principles of fire dynamics to analyse fires and explosions which involves an interdisciplinary approach and application of science and engineering to real-life problem solving.

Lectures: 3 x 1 hour per week; tutorials/workshops: 1 hour per week.

Prerequisites: Enrolment in the Graduate Diploma in Safety Science

### **Fish and Wildlife Populations (BIO249)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to the world of managing fish and wildlife populations amidst the pressures of environmental change, increasing populations and the push for economic development. Students will develop an understanding of the importance of biological and ecosystem knowledge, and economic considerations in developing effective conservation strategies and sustainable harvest policies for a range of different species.

Lectures: 2 hours per week; computer laboratories: 12 hours per semester; biological laboratories: 6 hours per semester; film discussion: 3 hours per semester.

Prerequisites: BIO103 Environmental Biology/Introduction to Environmental Biology or BIO180 Introduction to Marine Biology.

Exclusions: Students who have successfully completed BIO205/BIO249 Sustainable Management of Fish and Wildlife may not enrol in this unit for credit.

**FlexiTrack (EQUo8o)**

MURDOCH: H1-external, SPA1-external, SS3-external, SUM2-external, WU1-external, Y3-external

FlexiTrack is a series of four modules designed to develop skills that are relevant to any degree program. Each module is made up of a series of engaging topics, interactive activities and assignments which introduce students to university culture and build on academic skills such as reading and note-making, referencing, essay writing, numeracy and report writing.

Prerequisites: Enrolment in FlexiTrack Enabling Course

**Fluid Mechanics (ENG2o1)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces the principles of conservation and momentum transfer in the flow of fluids. Topics include the fundamental properties of fluids, hydrostatics, governing equations of fluid motion, dimensional analysis, pumps, pipe systems, fluid friction, and compressible flow.

Lectures/tutorials: 2 x 2 hours per week; laboratories: 2 hours per week.

Students will be exposed to 'Computational Fluid Dynamics' (CFD) and the use of the ASPEN Plus Code.

Prerequisites: Completion of all Part 1 units in the majors Chemical and Metallurgical Engineering or Environmental Engineering.

Exclusions: Students who have successfully completed EXM224 Principles of Unit Operations may not enrol in this unit for credit.

**Food Matters (BRD2o1)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The need to eat determines where, how and why we live. Further, we all share a global responsibility for the sustainable provision of food and the consequences of our food choices. With an overarching global perspective, this unit will explore food production and consumption in the context of history, economics, sociology, ethics, science and technology, and how each of these disciplines influence food attitudes and practices.

Lectures: 1 hour per week; tutorials: 1 hour every week.

Prerequisites: Nil.

This is a University-Wide Breadth Unit, if this unit is undertaken as part of the Sociology major it may not also be counted towards the breadth unit requirement.

**Food Security Masters Dissertation (BIO68g)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Students undertake an advanced, supervised investigation of a food security research problem related to their main area of interest. The project will report on the rationale, methods and results of the research and will be assessed on the basis of the quality of a submitted dissertation. Topics, applied in nature, will be chosen in consultation with the Unit Coordinator and the proposed supervisor. To be assessed by two staff members or other appropriately qualified people as approved by the Academic Chair.

Completing the Masters project will require critical thinking and good time management. Full time enrolment (completion in one semester) is equivalent to 40 hours of study per week. Discussions with supervisor(s) as required. This is an independent research

project and is therefore unique for each student.

Prerequisites: Enrolment in the Master of Food Security; students must have completed and passed all other units that comprise the Masters, prior to enrolling in this unit.

Students must have completed and passed all other units that comprise the Masters, prior to enrolling in this unit.

**Food Systems and Agriculture Business (MBS698)**

Credit Points: 3

Not available this year

Provides a comparative perspective to understand the key issues, challenges and responses in relation to food systems and agriculture business management. Identifies the key industry structures, size, value and importance of all sectors in the agribusiness industry. Outlines the international trade relations between Australia and the world and provides an overview of the various strategic approaches used by the Australian Agribusinesses sectors in order to promote their products domestically and overseas. Case studies and prominent guest speakers present global challenges.

Seminars and workshops are delivered in intensive teaching mode (up to 30 hours contact time), which may include evenings and weekends. Students will then complete research assignments, case studies and individual or group reports independently and in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

Basic understanding of Agriculture and food production/business principles is required.

**Food, Nutrition and Health (CHI1oo)**

Credit Points: 3

MURDOCH: S1-external, S2-external

Nutrition is one of the major determinants of health and well-being in our society. This unit is for those who are interested in improving their knowledge of food, nutrition and health. Students will gain a broad understanding of nutrition science and learn applicable skills including planning a healthy diet and analysing what they eat. Topics will explore what we eat (food and diet), energy balance, weight management and the scientific evaluation of nutrition messages and information in the media.

Online unit.

Lectures (recorded) - equivalent to 2 hours per week contact time  
Tutorial/Workshop (recorded and/or self-study materials) - equivalent to 2 hours per week

\* Computer software workshop: screen-capture recording of 'dietary assessment tools' - all students will be required to access this workshop and understand how to use the computer software in order to complete the assignment.

\* Self-studying components for tutorials and recommended reading materials

Prerequisites: Nil.

Exclusions: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BClinChiro); completion of EXS213 Nutrition

**Forensic Anatomy and Anthropology (BMS213)**

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on aspects of skeletal and regional anatomy of the human body that are central to forensic science, and in particular forensic anthropology - that is, how you could identify a person from their skeleton. Topics include human evolution, human

anatomy, and the changes associated with death and decomposition. Practical applications include the determination of age, sex, ancestry, pathology and trauma. Practical classes include hands-on experience with the measurement and analysis of human skeletal material.

Lectures: online content delivered as weekly modules; workshops: 2 hours per week; practicals: 1.5 hours per week (x 6 weeks).

Prerequisites: Nil. Highly recommended as preparation for this unit: BMS101 Introduction to the Human Body.

Exclusions: Students who have successfully completed BMS202 Forensic Anatomy and Anthropology may not enrol in this unit for credit.

### Forensic Data Analysis (ICT349)

Credit Points: 4

Not available this year

The increase in cyber crime requires IT security professionals to have a deeper understanding of the complex technical features of a cyber forensics examination and database security. Topics include: file analysis, operating system security, database security and auditing, and examination and analysis of digital evidence found in larger datasets. Apply the theory gained to a hypothetical cyber crime scenarios during the workshop investigation projects.

Lectures/workshop/seminar: 1 x 3 hours per week.

Prerequisites: ICT248 Cyber Forensics.

Students who have successfully completed ICT228 Special Topics in Information Technology: Cyber Forensics have satisfied this prerequisite.

### Forensic DNA Analysis (BIO359)

Credit Points: 3

MURDOCH: S1-internal

Provides advanced theoretical and practical training in DNA-profiling techniques relevant to forensic science. Includes mitochondrial DNA analysis, its applicability to identifying disaster victims, and the application of DNA-marker technologies to wildlife forensics and degraded and ancient DNA analysis. The use of short tandem repeats (DNA-profiling) for individual identification, quantitative PCR and mitochondrial DNA sequencing, single nucleotide polymorphisms (SNP) and Y-chromosome analysis in identifying perpetrators of crime is explored in the content of actual forensic cases.

Lectures: 1 hour per week; tutorial: 2 hours per week; laboratories: 3 hours per week.

Prerequisites: BIO202 Molecular Biology I or BIO212 Genetic Engineering or BIO282 Molecular Biology

Exclusions: Students who have successfully completed BIO373 Forensic Investigation or BIO313 Forensic DNA Analysis may not enrol in this unit for credit.

### Forensic Science (Professional Practice) Masters Dissertation (BIO609)

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

This Unit involves students in a supervised, advanced investigation of a selected topic related to their main area of study in forensic science or a related topic. It is designed to complete the requirements of the Master's degree. The topic of the dissertation will be chosen in consultation with the Unit Coordinator and proposed Supervisor. The dissertation will run over one semester.

Formal contact will be 6 hours per student.

Prerequisites: Completion of all coursework units associated with M1255 Forensic Science (Professional Practice) with a GPA of 2.5 unless otherwise approved by the Academic Chair.

Students who complete the full coursework component of the degree with an average GPA of 2.5 may proceed to either BIO612 Forensic Science (Professional Practice) Masters Project or BIO609 Forensic Science (Professional Practice) Masters Dissertation. Students with average GPA of less than 2.5 may only proceed to BIO609 Forensic Science (Professional Practice) Masters Dissertation unless approved by the Academic Chair.

### Forensic Science (Professional Practice) Masters Project (BIO612)

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

This Unit involves students in a supervised, advanced investigation of a selected research project topic related to their main area of study in forensic science or a related topic. It is designed to complete the requirements of the Master's degree. Research topics or a laboratory based work placement with a forensic institute, will be chosen in consultation with the Unit Coordinator and proposed Supervisor. The project or work placement will run over one semester.

Formal contact will be 6 hours per student.

Prerequisites: Completion of all coursework units associated with M1255 Forensic Science (Professional Practice) with an average GPA of 2.5 unless otherwise approved by Academic Chair.

Students who complete the full coursework component of the degree with an average GPA of 2.5 may proceed to either BIO612 Forensic Science (Professional Practice) Masters Project or BIO609 Forensic Science (Professional Practice) Masters Dissertation. Students with average GPA of less than 2.5 may only proceed to BIO609 Forensic Science (Professional Practice) Masters Dissertation unless approved by the Academic Chair.

### Forensic Science and Miscarriages of Justice (BIO388)

Credit Points: 3

MURDOCH: W-internal

This unit highlights the causes of investigator bias in forensic investigation. Groups of three or four students are assigned a criminal case in which failure to assess the evidence, objectively; the use of unsound forensic methodology or misinterpretation of forensic data has, led to a false or questionable conviction. Students critically evaluate the police procedures, the judicial process and the interpretation of the forensic evidence. Each group will generate and deliver a Power Point presentation of the assigned case.

Week 1: Lectures, Films and Documentaries 12 hours (4 x 3 hours).

Week 2: No Formal Contact

Week 3: No Formal Contact

Week 4: Test 1 hour and power point presentations 12 hours (6 x 2 hours) - dependent upon enrolment numbers.

Prerequisites: PEC103/CHE103 Introduction to Forensic Science OR CRM100 Introduction to Criminology OR permission of the Unit Co-ordinator.

**Forensic Toxicology (BIO367)**

Credit Points: 3

MURDOCH: S2-internal

Poison: the silent killer or the coward's weapon? History is littered with examples of the devastating consequences of poisons. This unit integrates forensic toxicology with biochemistry, chemistry and pharmacology, illustrating it with case histories centred on victims, villains and scientists. Attention is paid to the mechanisms by which these compounds exert their poisonous effects. Training is provided in the application of the cutting-edge analytical technology used to identify toxins in body fluids and contaminated products, including chromatography and mass spectrometry.

Lectures: 3 hours per week; laboratories: 4 x 3 hours.

Prerequisites: Successful completion of BIO247/BIO270 Biochemistry I/Biochemistry or BMS261 Human and Comparative Biochemistry.

Exclusions: Students who have successfully completed BIO314 Forensic Toxicology or BIO373 Forensic Investigation may not enrol in this unit for credit.

**Foundational Mathematics for Business (BUS130)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit aims to show students how quantitative analysis facilitates personal and corporate financial decisions by focusing on financial mathematics to value debt and equity securities. The valuation process considers the respective security's cash flows, time value of money and the associated risk. The unit introduces techniques used to collect, calculate, and interpret information used as the basis for pricing mortgage loans, evaluating superannuation performance and quantifying and selecting investment alternatives.

Workshops: 2 hours per teaching week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS140 Principles of Finance and Banking may not enrol in this unit for credit.

**Foundations in Business/Commerce 1 (KACo15)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit will equip you with the communication skills in literacy, numeracy, and information technology required to succeed in Business and Commerce.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Business/Commerce 2 (KACo16)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit describes the purpose and nature of business activity and the factors that influence and constrain business behaviour and decisions. The commonalities and differences across various regions and countries in business and the implications of these business practices on the people are explored.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by

permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Business/Commerce 3 (KACo17)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is designed to develop the mathematic skills of students enrolled in BUS130.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Business/Commerce 4 (KACo18)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit develops the skills required for the discipline of management and governance, including report research, writing, group work and techniques that improve individual skill acquisition. A range of topics such as business ethics and private and public governance will be examined.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Education 1 (KACo11)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit develops the skills and understandings needed to study successfully in Education. These skills include academic reading and writing skills, communication skills, critical thinking and problem solving skills specific to education. You will also begin to investigate and discuss some key ideas and current debates in Education, as preparation for more in-depth exploration in later units.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Education 2 (KACo12)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit introduces students to the human aspects of the teaching profession. Students will reflect on the self as a learner/teacher and the impact their identity may have on their teaching practice and learning outcomes for students.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Education 3 (KACo13)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit develops language and literacy skills essential for teachers in all school settings. Emphasis is given to oral language development and English academic writing, especially grammar.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Education 4 (KACo14)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is designed to develop the mathematic skills of students enrolled in EDN114. The fundamentals of number and algebra; geometry and measurement; probability and statistics; and the characteristic processes of problem solving, reasoning and numeracy are addressed.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Nursing 1 (KACo19)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit develops academic and professional skills required in Nursing, more specifically academic writing, critical thinking, researching, referencing, professional language and numeracy.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Nursing 2 (KACo20)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit explores human health issues from a range of interdisciplinary and cultural perspectives. It explores concepts of self, sexuality, spirituality, stress and coping, dealing with loss and grief, and substance dependence and the role of health professional in addressing these.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Nursing 3 (KACo21)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit extends and consolidates students' discipline specific study skills and understanding of NUR111 and NUR149.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations in Nursing 4 (KACo22)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit extends and consolidates students' discipline specific study skills and understanding of NUR112.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations of Accounting (BUS170)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides an introduction and broad overview of fundamental financial and management accounting concepts. The unit is suitable for anyone undertaking a commerce degree as it introduces students to concepts and practices necessary for a basic understanding of business reports. The topics addressed in financial accounting include the accounting equation, cash vs accrual accounting, Australian Accounting Standards, and financial statement analysis. Management accounting topics include an introduction to budgeting, CVP analysis and cost behaviour.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS160 Introduction to Accounting may not enrol in this unit for credit.

**Foundations of Arts 1 (KACo06)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is for students enrolled in the BA degree. It will help you in the transition and acculturation into university by developing learning skills needed at university and beyond. These include organisational, thinking, problem-solving and communication skills.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations of Arts 2 (KACo08)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit explores the how ideas have changed the world. It will examine how ideas are formed, transmitted, changed and how these ideas can change the planet. Students will be introduced to the ideas and methodological, conceptual and theoretical approaches that underpin the arts, social sciences and humanities.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations of Arts 3 (KACoog)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit explores the concepts of the political economy of sustainability in a local and global context. Various approaches to sustainability are examined to determine their respective effectiveness in addressing global sustainability problems.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations of Arts 4 (KACo10)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit aims to introduce students to the world of sociology; its concepts and theories, the history of sociology and the impact that sociological thinking has on societies. It will encourage students to recognise the relevance of sociology to everyday questions about contemporary issues in the social world. A variety of topics such as gender, class, ethnicity, ideology and their role in identity formation will be discussed.

Tutorials: 2 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

**Foundations of Business Law (BSL165)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

This unit introduces students to the Australian legal system, its operation and development, and to the principles of law applicable to core areas of business, such as contract law, tort law and agency law. Students studying Business will usually find this unit essential and prerequisite to further studies.

Lectures/workshops: 2 hours per week over 12 weeks.

This teaching pattern is applicable for offerings at Murdoch South Street, Kaplan - SGP &amp; Dubai - ISC

Online learning experiences

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS165 Principles of Commercial Law may not enrol in the unit for credit, and students who are enrolled in the Bachelor of Law (LLB) may not enrol in this unit for credit.

**Foundations of Chemistry (CHE144)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit provides a foundation in the principles of general chemistry relevant to the study and practice of a range of scientific disciplines. Topics include: molecular structure, solubility, solution chemistry (including colligative properties and equilibrium), thermodynamics, reaction kinetics, organic compounds and concepts related to the interaction of radiation with matter. The laboratory component facilitates practical application of major principles and the development of safe laboratory practices.

Lectures/tutorials/workshops: a total of 4 x 1 hours per week; laboratories: 1 x 3 hours per week for 9 weeks; optional Peer

Assisted Study Session (PASS): 1 hour per week.

External: compulsory attendance at a 5-day on-campus laboratory session.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to commencement of the teaching period.

For External students there is compulsory attendance at a 5-day on-campus laboratory session.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to commencement of the teaching period.

Prerequisites: A thorough knowledge of Chemistry ATAR is assumed. Students who did not achieve a ATAR final scaled score of more than 50 percent in Chemistry ATAR within the three years immediately preceding this enrolment are required to pass CHE140 Introduction to Chemistry before enrolling in this unit.

Exclusions: Students who have successfully completed PEC114 Chemistry for Biological Sciences, PEC115 Chemistry for Environmental Sciences, PEC116 Chemistry for Physical Sciences, or PEC144 Chemical Principles may not enrol in this unit for credit.

**Foundations of Computer Systems (ICT170)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to the fundamentals of computer systems and how they underpin IT infrastructures supporting enterprise processes. Topics include digital logic, memory, storage, processing paradigms, operating systems, programming languages, systems development, deployment and professional ethics. Students will acquire understanding of a computer system's functional components, their characteristics, performance, interactions and use in IT, plus an appreciation of the role of the IT professional in IT systems.

Lectures: 1 x 2 hours per week; computer laboratories: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ICT106 Fundamentals of Computer Systems may not enrol in this unit for credit.

**Foundations of Data Communications (ICT169)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides an introduction to data communications. The architectures of TCP/IP and OSI models are studied and students completing the unit will be conversant with the devices, technology and language of data-communications. Practical exercises with switches and routers will place the theory in context, allowing students to design, build and troubleshoot networks. The unit covers significant portions of the Cisco CCNA Certification curriculum. For students specialising in data-communications, subsequent units will add depth and breadth to this foundation.

Lectures: 1 x 2 hours per week; computer laboratories: 1 x 2 hours per week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have previously taken ICT103 Introduction to Data Communications may not enrol in this unit for credit.



**Foundations of Data Science (ICT515)**

Credit Points: 3

MURDOCH: S1-internal

The objectives of this unit are to introduce students to an understanding of data, uncovering patterns within data and developing models whose prediction accuracy on future, unknown data can be quantified. Major topics include: concepts of statistical learning; machine learning algorithms; over-fitting and model tuning; regression models; classification models; recommendation engines and social networks; assessing model performance; extracting meaning from data. The R programming language and software environment will be introduced to students and will be used to demonstrate implementations.

Lectures: 1 x 2 hours per week; workshops: 1 hour per week.

Prerequisites: Enrolment in an IT graduate course or permission of the Academic Chair.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the workshop exercises for that week. In addition, each student is required to complete two assignments and sit the final examination.

**Foundations of Discrete Mathematics (MAS162)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

In this unit, students will learn to use the prominent mathematical computer package MATLAB to perform basic mathematical procedures and to solve problems in the general area of discrete mathematics. Topics include: recurrence relations, solving equations graphically and iteratively, computer arithmetic, basics of counting and discrete probability, matrices and linear transformations of the plane, propositional and predicate logic, mathematical induction, Boolean algebra and logic networks.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: MAS164 Fundamentals of Mathematics OR a final scaled score of 55% or more in ATAR Mathematics Applications or WACE Mathematics 2C/2D OR a final scaled score of 50% or more in ATAR Mathematics Methods or WACE Mathematics 3A/3B (or higher) OR equivalent.

Exclusions: Students who have successfully completed MAS167 Computational Mathematics cannot enrol in this unit for credit.

**Foundations of Economics (BUS171)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Economics is a study of how societies can best use and distribute the world's scarce resources to meet human needs and wants. This unit provides a valuable foundation of how economies operate, how businesses and individuals use economics in their decision making, and why governments implement certain economic policies. These include policies on employment, inflation, the environment, interest rates and the welfare of society. The unit also covers international issues including international trade, foreign debt and the global economy.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS161 Introduction to Economics may not enrol in this unit for credit.

**Foundations of Effective Leadership (MBS598)**

Credit Points: 3

Not available this year

This unit locates Leadership within the strategy process and distinguishes leadership from management. Traditional theories of leadership are introduced but are not focused on. Instead the unit delves deeply into leadership as a capability that an organisation needs to develop. It relies heavily on the Sloan Distributed Leadership Model and draws on Ronald Heifetz's work on Adaptive Leadership.

Up to 24 contact hours plus personal study including online, up to a total of 150 hours.

Non-timetabled learning experiences are particularly important in this 3-point unit. The unit reading, preparation of assessment items and other out-of-class tasks involve independent, guided scholarship and the application of knowledge and skills with high level personal autonomy and accountability (important AQF Level 9 learning outcomes).

Prerequisites: Nil.

Exclusions: Students who have successfully completed MBS671/MBS6711/MBS6712/MBS687 Effective Leadership may not enrol in this unit for credit.

**Foundations of Management and Governance (BUS176)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit offers an introduction to the discipline of management and governance. Workshops emphasise generic skill development for report research, writing, group work and techniques that improve individual skill acquisition. Topics include business ethics, governance (private and public), the contemporary workplace, cross cultural management, and the principles of learning and motivation. Upon completion students should have the core skills necessary for preparing management reports, enhancing transition to second year management units and other units within the Bachelor of Business course.

Workshops: 2 hours per teaching week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS145 Principles of Management may not enrol in this unit for credit.

**Foundations of Marketing (BUS183)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides an appreciation of how marketing creates value for business, society and customers. As the foundational Marketing unit, it introduces students to the marketing organisation and planning process, marketing research and information gathering methods and some of the analysis tools marketers use. Unit topics include the marketing function, the marketing organisation, marketing information systems, product development, pricing and buyer behaviour. The unit describes the importance of marketing to the strategic planning of an organisation.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS169 Principles of Marketing may not enrol in this unit for credit.

**Foundations of Programming (ICT159)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces key aspects of computer programming including data storage and manipulation, and problem solving using a high-level programming language. Topics include: algorithms and problem solving; testing methodologies; fundamental aspects of a programming language including data types, input/output, simple selection and iteration control structures, data structures, one-dimensional arrays; and introduction to the concepts involved in object-oriented programming.

Lectures: 2 x 1 hour per week; computer laboratories: 1 x 3 hours per week (1 hour unsupervised); optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have completed ICT102 Introduction to Computer Science may not enrol in this unit for credit.

**Foundations of the Environment (ENV102)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Environmental science is a problem-oriented, multidisciplinary field that attempts to assess environmental problems scientifically. This unit acquaints the students with the broad principles and methodology of environmental science. The nature of environmental systems and the methods used to learn more about them are introduced. The interrelations between land uses and geomorphology, soils, climate, plant communities, wetlands, rivers and estuaries and their interaction with humans are examined from an integrated, problem-solving perspective.

Lectures: 1 x 1 hour plus 1 x 2 hours (total 3 hours per week); laboratories/semester: 4 x 3 hours.  
Internal students are required to sign-up (online) to a laboratory group. External students should note that this unit has a compulsory four-day on-campus component.

A Swan Coastal Survey, where students are required to work in groups off-campus to complete an environmental assessment. This field trip provides practical experience of underlying environmental theoretical principles and training in group work.

Internal students are required to sign-up (online) to a laboratory group. External students should note that this unit has a compulsory four-day on-campus component.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV102 Introduction to Environmental Science may not enrol in this unit for credit.

**Foundations of Vertebrate Form and Function (BMS107)**

Credit Points: 3

MURDOCH: S2-internal

This unit addresses the mechanisms by which vertebrates carry out essential life processes: how they maintain homeostasis (e.g. thermal, ionic and water), are metabolically active (use oxygen and nutrients, produce carbon dioxide and wastes, and synthesise complex molecules), and respond to stimuli (nervous system, sense organs and mechanisms of locomotion). The accompanying practical sessions examine the structure and function of the vertebrate body at three levels of organisation: an introduction to histology, organs and organ systems, and overarching physiological processes.

Lectures: 3 hours per week; laboratories: up to 3 hours every

second week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil. Highly recommended: BMS101 Introduction to the Human Body or ANS102 Introduction to the Animal Body.

Exclusions: Students who have successfully completed BMS107 Principles of Vertebrate Physiology may not enrol in this unit for credit.

**Functional Human Anatomy (EXS206)**

Credit Points: 3

MURDOCH: S1-internal

This unit will provide students with knowledge of the anatomy of the human body with a particular focus on systems related to human movement. Specifically students will examine the musculoskeletal, cardiovascular, pulmonary and nervous systems. Throughout the unit students will be introduced to how these systems perform functionally during human movement as well as how structural damage can influence how humans move and perform.

Lectures: 1 hour per week (online); Tutorials: 2 hours per week; Surface Anatomy Laboratories: 1.5 hours per fortnight; Gross Anatomy Laboratories: 2 x 1.5 hours during the semester.

Prerequisites: BMS101 Introduction to the Human Body

Exclusions: CHI281 Human Anatomy 1; CHI282 Human Anatomy 2; CHI255 Human Anatomy 2; CHI234 Human Anatomy 3

**Fundamentals of Chemistry (CHE140)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit introduces fundamental concepts that prepare students for subsequent study in chemistry and support further study in a range of majors. Students learn about the nature of matter at the molecular level. This involves learning language, symbols and representations used to describe matter and chemical reactions. Students develop skills in problem solving and calculations related to chemical quantities, processes and reactions.

Introductory lecture: 1 hour in Week 1 (optional); Support sessions (Clinic): 1 hour per week for 10 weeks (optional); Laboratory classes: 4 hours per week for 5 weeks; optional Peer Assisted Study Session (PASS): 1 hour per week.

Up to 3 days intensive laboratory activities for external students.

Up to 3 days intensive laboratory activities for external students.

Prerequisites: Knowledge of chemistry to the level of Year 10 (fourth year of WA secondary school) or equivalent and reasonable grounding in basic mathematics are assumed.

Exclusions: Students with a final scaled score of 50% or higher in Chemistry ATAR (WACE Chemistry 3A/3B) within the past three years may be excluded from the unit. Students who have successfully completed CHE144 Foundations of Chemistry/PEC144 Chemical Principles may not enrol in this unit for credit. Students who have successfully completed PEC140 Introduction to Chemistry or OSCI18 Introduction to/Fundamentals of Chemistry cannot enrol for credit in this unit.

Completion of this unit will enable students to enrol in CHE144 Foundations of Chemistry.

**Fundamentals of Computer Systems (ICT106)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TMD-internal

This unit provides an overview of the hardware and software of computer systems and introduces a number of important topics in computer science: overview of computer system architecture; computer memory, information representation and storage; execution of instructions including ALU, registers, instruction sets, fetch/execution cycle, addressing modes; concepts of software and hardware interrupts, introduction to operating system principles -- process management, memory management and file management; Arduino and C language programming.

Lectures: 2 hours per week; Laboratory/workshop: 2 hours per week.

Prerequisites: ICT102 Introduction to Computer Science.

**Fundamentals of Mathematics (MAS164)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Preparatory mathematics unit intended for students who have insufficient background for other units, in particular MAS162 Foundations of Discrete Mathematics and MAS182 Applied Mathematics. Topics: algebra; polynomials, exponential and logarithmic functions and their graphs; matrices; basic concepts of differential and integral calculus and applications.

Lectures: 4 x 1 hour per week; Tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed a mathematics unit of the standard of Mathematics Specialist:ATAR, WACE Mathematics Specialist 3C/3D or TEE Calculus (or higher) may not enrol in this unit. Students may not enrol in this unit and either MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra concurrently.

**Game Development (ICT371)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on game development using advanced game development tools and environments. Topics covered include storytelling in games, character design and level design; game design patterns; game architectures; game development platforms; concepts of serious games. A further topic may include an overview of networked game development.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour unsupervised).

Tutorial sessions (mainly computer practice) will consist of exercises that the students need to complete to understand the concepts in achieving the aims of the units. In order to assess a small subset of the learning outcomes, each tutorial exercise will require the solution to some small problems.

Prerequisites: ICT290/ICT207 Games Design and Programming.

Exclusions: Students who have successfully completed ICT309 Game Development may not enrol in this unit for credit.

Each student is expected to read the lecture notes and any recommended materials relevant to the topic each week. Student will also need to spend some time working on the lab exercises for that week. In addition each student needs to complete one assignment, one project and sit the final examination.

**Games and Apps Design and Production (GAD501)**

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on the professional practice of game and app development for commercial purposes. Students engage in critically informed design for desktop and mobile software with specific client or end-user requirements, and learn the production processes required to build and test games and apps. Ideas generated from requirements are worked into a proof of concept prototype, intended for full production with plans for marketing and business development, and considerations for community engagement and maintenance/expansion for the product.

Tutorials: 3 hours per week.

Prerequisites: Enrolment in a graduate-level course.

**Games and Apps Production Project (GAD502)**

Credit Points: 6

MURDOCH: S2-internal

This unit aims to guide students through the process of designing, implementing, and launching a game or application for either mobile or desktop platforms. With a focus on commercial viability, engagement with client or potential user base, and plans for deployment and support, students will make use of industry best-practices and methodologies to develop an interactive software project according to budget, schedule, and quality constraints, comprising both individual and team-based components.

Tutorials: 2 x 2.5 hours per week.

Prerequisites: Completion of GAD501 Games and Apps Design and Production.

**Games Art (GAD261)**

Credit Points: 3

MURDOCH: S1-internal

This unit extends students' knowledge in art and design theory and production in relation to games art. The unit will focus on putting theory into practice, requiring students to explore and visualise concepts and then generate sophisticated game-ready assets.

Online lecture; media laboratories: 3 hours per week

Prerequisites: GAD154 Introduction to Games Art and Design.

Exclusions: Students who have successfully completed MCC261 Games Art cannot enrol in this unit.

**Games Art and Design Professional Placement (GAD325)**

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected final year students in Games Art and Design on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional centres will be full-time across four weeks (or part-time equivalent). During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

Prerequisites: Enrolment is by permission of the Academic Chair.

Students should contact the unit coordinator regarding enrolment.

**Games Design and Programming (ICT290)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers introductory games design and programming from a theoretical and practical point of view. It includes Games Design, Object Oriented design, and testing. Further work covers non-linearity, gameplay, game balance, game documentation, code management and intelligent agents. Practical rules for writing games programs are developed and applied.

Lectures: 1 x 2 hours per week; laboratory: 1 x 2 hours per week (1 hour unsupervised).

Prerequisites: ICT167 Principles of Computer Science. Students are encouraged to complete ICT283 Data Structures and Abstractions and ICT289 Computer Graphics Principles and Programming prior to taking this unit.

Exclusions: Students who have successfully completed ICT207 Games Design and Programming may not enrol in this unit for credit.

Each student is expected to read the lecture notes and any recommended materials relevant to the topic each week. Students will also need to spend some time doing the lab exercises for that week. In addition each student needs to complete one assignment, one project and sit the final examination.

**Games Design Studio (GAD375)**

Credit Points: 3

MURDOCH: S1-internal

Students combine their prototyping skills and game design knowledge to develop and test original games for a wide variety of real-world settings targeting several different platforms. The prototypes developed could engage several genres, from serious and educational to casual and hardcore games.

Online lecture; media laboratories: 2.5 hours per week

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC375 Games Design Studio may not enrol in this unit for credit.

**Games Project (GAD362)**

Credit Points: 3

MURDOCH: S2-internal

This final Games Art and Design unit provides an opportunity for students to engage in sustained creative project work. The unit will enable students to acquire practical experience in the development of a final games project from concept to production in a team environment.

Online lecture; media laboratories: 2.5 hours per week

Prerequisites: GAD261 Games Art OR GAD375 Games Design Studio

Exclusions: Students who have successfully completed MCC362 Games Project may not enrol in this unit for credit.

**Games Software Design (ICT288)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to give students the general background of game software design to create something fun and entertaining. It addresses issues in the computer and video game software design which includes elements of games creation, gameplay and game concepts. Topics include character design, creative play, design process, design documentation, environment, game-balancing,

player motivation, and user interface design. This unit does not treat game software design as purely art or engineering.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour unsupervised).

Prerequisites: ICT159 Foundations of Programming/ICT102 Introduction to Computer Science OR ICT101 Introduction to Graphics and Animation/GAD164/MCC164 3D Modelling.

Exclusions: Students who have successfully completed ICT241 Games Software Design may not enrol in this unit for credit.

**Games Software Production (ICT367)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on the theories, techniques and tools for designing, constructing and producing interactive 3D visualisation systems including computer games, interactive modelling software, Virtual Reality and Augmented Reality software. Besides focusing on the theories, techniques and tools, additional topics include budgeting, design documentation, evaluation, group dynamics, project management, team roles and responsibilities. Using industry standard design and development tools, students will apply the theoretical aspects of this unit to create games and virtual/augmented reality applications in a team environment.

Lectures: 1 x 2 hours per week; laboratories: 1 x 2 hours per week (1 hour unsupervised).

Tutorials/labs complement the lectures in the form of hands-on experience using one of the available industry standard software tools. Besides attending lectures and tutorials/labs, students will also have access to the LMS to assist them in their learning process. As this is a 3 credit point unit, it is expected that a student will spend on average 10.0 hours per week for the total 15 weeks of this teaching period working on this unit.

Prerequisites: ICT284 System Analysis and Design or ICT288/ICT241 Games Software Design.

Exclusions: Students who have successfully completed ICT245 Games Software Production may not enrol in this unit for credit.

**Gender in Asian Societies (AST558)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines the role and status of men and women in Asian societies. It considers representations of the masculine and feminine from traditional culture to contemporary society. Emphasis will be placed on the implications for men and women of current social and economic changes in the region including government policies affecting reproduction and the family, women's involvement in subsistence agriculture, industry and the development process. Autobiography and film will be used to supplement anthropological and sociological studies.

Internal: Seminars: 1 x 3 hours per week.

External: Lectures: 1.5 hours; films: 1 hour; online discussions.

External Students will participate in: Lectures: 1.5 hours; films: 1 hour; online discussions.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) course or permission of the Unit Coordinator.

**General Physics (PEN120)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This is an introductory physics unit, designed to provide a basis for further studies in the physical sciences. It covers a range of topics including measurement, motion, waves, light, thermal energy, electric and magnetic fields. This unit does not require knowledge of calculus. Applications and examples are drawn from the biological, environmental, medical and physical sciences.

Lectures: 2 x 1 hour per week; tutorials/laboratories: 1 x 2 hours per week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Mathematics 3C/3D or MAS164 Fundamentals of Mathematics are strongly recommended. MAS164 Fundamentals of Mathematics may be taken concurrently.

Exclusions: Students who have successfully completed PEC/PEN152 Principles of Physics or OSC116/PEC/PEN120 General Physics or M150 Physics 1A and M151 Physics 1B may not enrol in this unit for credit.

**Genetic Engineering (BIO394)**

Credit Points: 3

MURDOCH: S1-internal

The key knowledge covered in this unit is how to isolate genes and introduce them into plants, animals and microorganisms and how to study gene structure and expression. Key skills gained by students will be in gene construction and introduction into bacteria, computer analysis of DNA sequences and reporting and interpretation of experimental results. The practical applications of gene transfer technology in medicine, agriculture, and environmental management are emphasised.

Lectures: 3 hours per week; Workshops: 5 x 1 hour; Computer labs: 2 x 1 hour, Laboratories: A total of 30 hours during the second non-teaching week.

Prerequisites: BIO282 Molecular Biology

Exclusions: Students who have successfully completed BIO212 Genetic Engineering may not enrol in this unit for credit.

**Genetics and Evolution (BIO356)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces the disciplines of genetics and evolutionary biology, focusing on eukaryotes. The main aim is to promote an understanding of fundamental genetic concepts and of how populations evolve. Activities will develop conceptual thinking, and analytical and problem-solving skills. The Unit underpins a range of other units in the parent majors that involve applications of genetic and evolutionary principles.

Lectures: 2 hours per week; practicals/workshop 4 hours per week (includes 1 hour pre-lab) in most weeks.

Tutorial (voluntary): 1 hour per week in most weeks.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology and either MAS183 Statistical Data Analysis and Databases or MAS182 Applied Mathematics or equivalent.

Exclusions: Students who have successfully completed BIO372 Genetics and Evolution may not enrol in this unit for credit.

**GIS for Environmental Management and Planning (ENV303)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

A hands-on introduction to geographical information systems (GIS) and remote sensing as used in environmental management and planning. This course encourages spatial thinking and understanding of the physical and human environments, explores geographic data sources and focuses on basic skills in spatial data analysis. Topics: data sources, spatial data analysis, map construction, GPS, image classification, change detection, cartographic modelling and demographic data sets and analysis. Practical work includes exercises and a minor team-based or individual research project.

Lectures: 2 hours per week; laboratories: 3 hours per week.

Prerequisites: Completion of 24 points at Part I or enrolment in an appropriate graduate qualification.

Exclusions: Students who have successfully completed ENV203 or ENV503 GIS for Environmental Management and Planning may not enrol in this unit for credit.

Off-campus students must have access to suitable computing facilities, preferably Windows-based computer though Apple computers with Virtual PC and Windows OS are also suitable.

**Global and Regional Sustainability (ENV245)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit enables students to apply their understanding of sustainability and their knowledge of environmental systems to different scales ranging from regional to global. Students will develop competence to unpack the threats to sustainability and their underlying drivers. They will explore strategies to address them which incorporate technical, governance, economic and social approaches.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV212 Global and Regional Sustainability may not enrol in this unit for credit.

Note that while there are no pre-requisites students would benefit from taking introductory environmental science/sustainability units prior to enrolling.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement.

**Global Biosecurity (BIO639)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Biological Security (biosecurity) refers to the protection of people, plants and animals from pests and diseases. It is a broad, multidisciplinary field encompassing science, law, economics, mathematics and sociology. In this unit you will be introduced to the International frameworks that drive global biosecurity and the Australian biosecurity system. Using real-life examples and case studies you will learn about preparedness, surveillance, diagnostics, emergency response and management of pests and diseases.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments

independently, in consultation with teaching staff.

Field trip to local biosecurity facilities during intensive teaching week.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Any student who has completed BIO538 Plant Biosecurity in Practice is not permitted to enrol in the unit BIO639 Global Biosecurity.

This unit will be taught in intensive mode.

### **Global Business (MBS661)**

*As for MBS661 except:*

Credit Points: 6

DUBAI-ISC: TMD-internal

Workshops (South Street Campus): this unit is offered in intensive mode in 4 days over 2 weekends. There are 4 teaching hours per teaching sessions (8 teaching sessions per semester). In addition, there are 16 structured coaching hours for the International Business Plan Competition Project. Workshops (Kaplan SGP and MUISC Dubai): 8 sessions, and 4 hours per session. In addition, there are 16 structured coaching hours for the International Business Plan Competition Project.

### **Global Business in the Asian Century (MBS661)**

Credit Points: 6

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit addresses key issues about managing global businesses in the 21st century - often called the Asian century. It examines accelerated globalisation and the rise of Asia, and discusses how managers make decisions on firm strategy, market entry, alliances, marketing, research and development, production, supply chain, and human resource management in a changing global business environment. The unit places you in the role of decision makers, developing your ability to innovatively apply theories to resolving problems in challenging international business situations.

Workshops (MURDOCH Campus): this unit is offered in intensive mode in 4 days over 2 weekends. There are 4 teaching hours per teaching sessions (8 teaching sessions per semester). In addition, there are 16 structured coaching hours for the International Business Plan Competition Project. 2 hours per teaching week for MURDOCH Campus and at DUBAI-ISC Campus.

Workshops (KAPLAN-SGP Campus): 8 sessions, and 4 hours per session fortnight. In addition, there are 16 structured coaching hours for the International Business Plan Competition Project.

Self-directed reading; team-based discussion and project

Prerequisites: Enrolment in graduate study

Exclusions: Students who have successfully completed MBS675 International Business or MBS630 International Business may not enrol in this unit for credit.

### **Global Governance, Security and Economy (SWM612)**

Credit Points: 6

MURDOCH: S2-internal

This unit examines architectures, processes and issues in contemporary global affairs. Dynamics explored include: global governance; globalised economic activity; shifting concepts of security and cooperation; ethics, justice and rights in world politics; the changing nature of conflict and the viability of peace; regimes of movement; and environmental challenges. It equips students with the analytical capacity essential for comprehending the key

structural and political factors shaping how the architecture of global governance is being reformed in the early 21st century.

Seminars and workshops are delivered in intensive teaching mode (32 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed SWM632 International Political Economy may not enrol in this unit for credit.

### **Global Justice (POL134)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

When people are treated unjustly they suffer and their community suffers. We can act as though our community includes only the people of our nation, but globalisation makes this attitude increasingly unsustainable and raises questions concerning justice for all peoples (i.e., global justice). But what is the extent of our responsibility to people being oppressed by their government, or living in poverty, or suffering sexual discrimination, or being affected by environmental degradation, or just wanting to migrate to our country?

Timetabled Learning Activities

Weekly 1.5 hour lecture and 1 hour tutorial.

Prerequisites: Nil.

### **Global Media Communication (MBS576)**

Credit Points: 3

MURDOCH: SP21-internal

This unit introduces theories of international marketing communications, including managerial processes, social media trends, strategic and operational planning and implementation plans. The unit examines ethical responsibility issues and impacts on stakeholders and consumers in relation to global marketing communication. It is useful for all types of communications, PR and advertising careers within international companies.

The main mode of learning is facilitated through combined lectures/seminars for 6 weeks and two Saturday workshops. During that time there will be three guest speakers and one 'hands on' computer lab session.

Self-directed and guided research regarding consumer learning experiences in selected cross-cultural media and communications environments around the globe.

Prerequisites: Nil.

### **Global Media: Asia-Pacific Perspectives (MCM682)**

Credit Points: 3

MURDOCH: S2-internal

This unit explores the dynamics of the political, economic, cultural and social impacts of the global media from an Asia-Pacific perspective. It discusses the key functions of the global media industry and institutions, media content and discourse, as well as media markets and consumption in a number of key Asia-Pacific nation-states. Students will engage with current issues, themes and debates about the global media, from a Western and a non-Western perspective.

Seminars: 3 hours per week (or equivalent) during teaching weeks. Details to be provided in class.

Prerequisites: Enrolment in the Master of Communication Management or a Graduate course.

**Global Policy and Administration (POL332)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

International organizations influence national public policy and administration. This course considers the differences between national and global administrative actors, representativeness, accountability, transparency, and responsibility. It then examines the power of international public servants and their interaction with member-states including discussion of climate refugees, alternative international organizations, global policy networks, and responsiveness to financial crises. We will cover the emergence of global administrative law and discuss how China, India, and Brazil are challenging the values institutionalized by the West.

1 hour lecture and 1.5 hour tutorial per week

Prerequisites: Nil.

**Globalisation of Modern Christianity (THE622)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit looks at how Christianity developed from a predominantly European religion to a genuinely world faith that, since the sixteenth century is now located in every part of the globe. Topics covered in the unit will include the Roman Catholic missions beginning in the sixteenth century, and Protestant missionary movement commencing from the eighteenth century. Connections between Christianity and European imperialisms will be explored, along with ways in which Christianity was shaped by its encounters with indigenous societies.

Lectures: 2 hours per week; Seminars: 1 hour per fortnight.

Prerequisites: Enrolment in graduate level study.

**Governance and Politics in the 21st Century (POL341)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit analyses politics, the state, democracy, governments and governance in the context of the 21st Century. It examines the potential and limits of democratic and non-democratic institutions and ideologies of accountability, representation and transparency. Is politics at risk of a technocratic governance takeover? Why is electoral cynicism and populism on the rise? What distinguishes democratic, liberal and moral attacks on corruption and what are the political reform implications? These questions are thematic to the unit.

Workshop: 2.5 hours per week

Prerequisites: Enrolment in Politics and International Studies major and completion of a minimum of 48 points. Students enrolled in other majors must have completed at least 6 points of POL units and a minimum of 48 points.

**Graduate Seminar in Psychology (PSY599)**

Credit Points: 3

MURDOCH: S1-internal

This unit will prepare students for graduate diploma study and especially for the research project, integrate prior learning with themes central to the science and practice of psychology, link the content, approaches, and assessments to real-life, job-relevant contexts, and prepare students who will be seeking work. Content includes critical methods for psychology and advanced topics.

Seminars/workshops: 2 hours per week.

Prerequisites: Enrolment in Graduate Diploma in Psychology (GradDipPsych)

Exclusions: Students who have successfully completed PSY412 Psychology: Fourth Year Seminar may not enrol in this unit for credit.

**Graphic Design Professional Placement (IDD325)**

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected final year students in Graphic Design on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional centres will be full-time across four weeks (or part-time equivalent). During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

Prerequisites: Enrolment is by permission of the Academic Chair.

Students should contact the unit coordinator regarding enrolment.

**Great Books Past and Present 1 (EGL252)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This second-year core unit in the English and Creative Writing major looks at a selection of great books in the English language from the English speaking world up to the early twentieth century. The aim is to introduce students to those seminal and decisive texts that have had a far-reaching influence on the writing of English literature globally.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

**Great Books Past and Present 2 (EGL345)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

In this capstone unit, students will engage with some great works of literature of the twentieth and twenty-first centuries. They will draw on the knowledge and skills developed in the Major in order to reflect on and evaluate the ways in which literary work is visible in contemporary culture. An extended project assessment will provide students with the opportunity to explore the ways in which literature represents, validates or otherwise intervenes into public and professional life.

Lectures (weekly) 1 hour (Lecture frequency may be adjusted to suit project/student needs)

Tutorials (weekly) 1.5 hours

Prerequisites: EGL252 Great Books Past and Present 1.

**Great Thinkers in Education (EDN679)**

Credit Points: 3

Not available this year

Students explore the work of seminal thinkers related to the field of education, such as: Michael Apple, Stephen Ball, Jean Clandinin, John Dewey, Eliot Eisner, Michel Foucault, Paolo Freire, Howard Gardner, Maxine Greene, Jurgen Habermas, Thomas Kuhn, Maria Montessori, Nell Noddings, Jean Piaget, Lev Vygotsky. Students develop (i) broad knowledge about the ideas/theories of seminal thinkers and (ii) deep understanding of selected thinkers in their sub-discipline of relevance to their intended thesis research.

7

Weekly 2-hour seminars/workshops are held after 4.30pm through the semester. Students complete a final assignment independently, in consultation with the unit lecturer.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

### **Greenhouse Gas Reporting and Life Cycle Assessment (PEN504)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit looks at the approaches for calculating and reporting greenhouse gas (GHG) inventories and lifecycle emissions at national, entity and even product level. The first part presents the elements of rigorous GHG and energy reporting methodologies using the Australian National Greenhouse and Energy Reporting Scheme as a case study. The second part covers the concepts and methodologies related to life cycle assessment (LCA). Its use is illustrated by examining case studies including LCA of renewable electricity, transport and oil.

Lectures/tutorials: 1 x 3 hours per week (notionally 2 hours of lecture and 1 hour of tutorial) for the 12 teaching weeks.

Prerequisites: Enrolment in the Postgraduate/Graduate Certificate in Energy Studies, Graduate Certificate in Energy and Carbon Studies, Postgraduate Diploma/Graduate Diploma in Energy Studies, Graduate Diploma in Energy and Carbon Studies, Postgraduate/Graduate Diploma in Energy and the Environment, Master of Renewable Energy or Master of Renewable and Sustainable Energy.

### **Group Counselling (CSL581)**

Credit Points: 3

MURDOCH: S1-internal  
MANDURAH: S1-internal

Students learn theoretical approaches to understanding and effectively working with group processes. Participation in small groups allows students to learn experientially about the rewards and challenges of group work, and how to establish a therapeutic atmosphere in a group. Students have the opportunity for reflection and feedback on the development of interaction, support and acceptance within the group.

Murdoch campus: Recorded Lectures: 1 hour; Tutorials: 2 hours per week.

Mandurah campus: Recorded Lectures: 1 hour; Tutorials: 2 hours per week.

Prerequisites: Enrolment in the Graduate Certificate in Counselling, Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies or Master of Counselling. Completion of, or concurrent enrolment in, CSL582 Principles of Counselling 1. Other students wanting to study this unit can be interviewed by the Counselling Academic Chair.

### **Haematology (BMS218)**

Credit Points: 3

MURDOCH: S2-internal (quota of 66 places) (closed as the offering has reached capacity)

This unit details our understanding of blood cell formation and function and how these are disturbed in various disease processes including anaemia, coagulopathy and haematological malignancy such as leukaemia, lymphoma and myeloma. Blood and stem cell transfusion practice is also introduced, including serological techniques, blood grouping and compatibility testing.

Lectures: 3 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology.

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Clinical Laboratory Science (BSc); Laboratory Medicine (BSc/BLabMed) or by permission of the Unit Coordinator.

### **Hazard, Risk and Project Management (ENG691)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal (closed), U-internal

This unit provides the foundations for understanding the concepts and typical approaches in understanding the hazards, risks and management associated with large projects. A variety of industrial examples are used covering electrical, process, communications and SCADA information systems.

Lectures/tutorials/meetings/laboratories: by arrangement with the unit coordinator.

Typically requires 2-3 hours of contact per week and significant additional self-study.

The unit requires a moderate degree of group work since student teams progress through a significant research project over the course of the semester.

Prerequisites: Completion of 24 credit points of the Master of Engineering.

### **Hazard, Safety and Environmental Management (ENG456)**

Credit Points: 3

MURDOCH: S1-internal

Hazard, Safety and Environmental Management is a set of policies, programs, procedures and practices. One of the essentials in professional engineering practice is ensuring that people and companies operate in compliance with applicable regulations, but the total scope is much greater, encompassing all aspects of an organisation's products and processes. In this unit, students learn to apply these principles in the context of designing, operating and managing metallurgical and other processing plants.

Lectures: 1 x 2 hour per week; tutorial/workshop: 2 x 2 hours per week

Site visits may optionally be a component of the learning experiences undertaken.

Prerequisites: Completion of ENG325 Pyrometallurgy, ENG326 Hydrometallurgy, ENG328 Mineral Processing I, ENG329 Mineral Processing II or approval by the Unit Coordinator.

### **Health Across the Lifespan 1 (NUR112)**

Credit Points: 3

MURDOCH: S1N-internal  
MANDURAH: S1N-internal

This unit draws on theoretical perspectives of lifespan development from conception through to senescence. Taking a broad approach to lifespan development the biophysical, cognitive, psychosocial, moral and spiritual, and environmental perspectives will be explored. Introducing evidence based principles students will investigate the determinants of health that contribute to individual, family and community wellbeing across the lifespan. Topics relating to the national health priorities across the lifespan, including intellectual and physical disability will be introduced to provide a conceptual grounding.

Lecture: 1 hour per week; Tutorials: 2 hours per week.

Lectures delivered face-to-face in alternate weeks across both Perth



and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Prerequisites: Enrolment in Bachelor of Nursing

Exclusions: Students who have successfully completed NUR100 Introduction to Nursing Practice may not enrol in this unit for credit.

### Health Across the Lifespan 2 (NUR122)

Credit Points: 3

MURDOCH: S2N-internal  
MANDURAH: S2N-internal

Continuing the broad approach to lifespan development the biophysical, cognitive, psychosocial, moral and spiritual, and environmental perspectives will be explored. Utilising evidence based principles students will investigate the determinants of health that contribute to individual, family and community wellbeing across the lifespan. Topics to be explored will include: holistic care, dementia, health assessment and vital signs, skin integrity and wound care, and sensory perception.

Lecture: 1 hour per week; Tutorials: 2 hours per week.  
Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Prerequisites: Enrolment in Bachelor of Nursing. Completion of NUR112 Health Across the Lifespan 1 or NUR100 Introduction to Nursing Practice; NUR114 Professional Practice 1 or NUR103 Contemporary Nursing Practice.

Exclusions: Students who have successfully completed NUR105 Nursing Health Assessment and Physical Examination may not enrol in this unit for credit.

### Health and Human Behaviour (BNR150)

Credit Points: 3

MURDOCH: S2N-external  
MANDURAH: S2N-external

This unit explores human health behaviour theory and research from a range of interdisciplinary and cultural perspectives. It examines topics that include health psychology across the lifespan, health behaviours, self-management, health promotion, behaviour change, illness prevention, and mental health first aid. Concepts of self-concept, sexuality, spirituality, stress and coping, dealing with loss and grief, and substance dependence will also be investigated from a variety of perspectives and will prepare students for evidence based practice in diverse health professional roles.

2 hour on campus assessment instruction.

Lectures: 1 hour per week pre-recorded and available through the web unit on the learning management system (LMS)  
9 hours of online learning activities per week.

Prerequisites: Enrolment in Bachelor of Nursing

Exclusions: Students who have successfully completed NUR258 may not enrol in this unit for credit.

### Health and Physical Education and the Curriculum (Major) (EDN419)

Credit Points: 4

Not available this year

This unit prepares you for teaching Health and Physical Education (HPE) in secondary schools. The emphasis is on the construction of a teaching practice that integrates knowledge with practical strategies

for effective learning, related to the promotion and maintenance of healthy and active lifestyles. The unit emphasises the processes of planning, developing and implementing both the WA HPE Curriculum from years 7 - 10 and the WA Senior Secondary Courses - Physical Education Studies.

Lectures/workshops: There will be 1x1 hour lecture and 1x2 hour workshop per week.

You are required to attend lectures and workshops on campus. Details of the unit will be advised in the Unit Information and Learning Guide and on LMS.

You will need to access LMS during this unit to access resources and the latest information regarding this unit.

Prerequisites: Enrolment in BEd (Secondary Teaching)/Sports Science degree (B1279) or BEd 1-10 Health and Physical Education(B1285); successful completion of BED150/EDN112/EDN121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching and either CHI3151/EXS315 or EDN307 (B1279 students) or EDN302 (B1285 students) and EDN116 Physical Education; EDN319/EDN3191/EDN356 Sport Education

Students enrolled in the GradDipEd (Secondary) may not enrol in this unit.

### Health and Physical Education and the Curriculum (Primary) (EDN464)

Credit Points: 3

MURDOCH: S1-internal

This unit prepares you for teaching Health and Physical Education (HPE) in secondary schools. The emphasis is on the construction of a teaching practice that integrates knowledge with practical strategies for effective learning, related to the promotion and maintenance of healthy and active lifestyles. The unit emphasises the processes of planning, developing and implementing both the WA HPE Curriculum from years 7 - 10.

Lectures: 1 hour per week; workshops: 1 x 2 hours per week.  
You are required to attend lectures and workshops on campus. Details of the unit will be advised in the Unit Information and Learning Guide and on LMS. You will need to access LMS during this unit to access resources and the latest information regarding the unit.

Prerequisites: Enrolment in the BEd Primary, 1-10 Health and Physical Education. Successful completion of BED150 Understanding Teachers' Work and EDN111 Language for Learning and Teaching and EDN3191/EDN356 Sport Education and EDN248 Teaching Health and PE in Primary Schools. Requires concurrent enrolment in EDN465 Professional Experience: Perspectives on Curriculum.

Exclusions: Students who have successfully completed EDN419 Health and Physical Education and the Curriculum (Major) may not enrol in this unit for credit.

Students should co-enrol in EDN465 Professional Experience: Perspectives on the Curriculum.

### Health and Society (SOC313)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Offering an introduction to the sociology of health, medicine and body. It invites students to look beyond physical aspects of health and examine the way treatment and experience of illness is sociologically shaped and determined. How certain conditions (like alcoholism) come to be labelled diseases? Why some treatments regarded as legitimate by health authorities while other 'alternative therapies' are not? Why abortion and stem cell research is so controversial? What are likely the big health issues facing society in

the next century?

Seminar: 2.5hrs

Prerequisites: Nil.

Exclusions: Students who have successfully completed SOC213 Health and Society cannot enrol for credit in this unit.

It is highly recommended to have completed S134/SOC134 Introduction to Sociology prior to enrolling in this unit.

### Health Care Education (SHP638)

Credit Points: 3

Not available this year

This unit focuses on developing effective teaching practices for peer and client education and explores conceptual issues and practical concerns surrounding mentoring in health care settings. Students examine the relationship between the individual learner, the teacher, the context and the clinical learning milieu. Students reflect on their own teaching philosophy, define and evaluate effective teaching strategies; critically analyse benefits of the andragogical and pedagogical learning paradigms; explore concepts, models and applications of mentoring; essential elements of mentoring relationships and programs.

External: No attendance required

Prerequisites: Enrolment in a Graduate course.

### Health Communication (MCM507)

Credit Points: 3

MURDOCH: S1-internal

This unit explores health communication from a range of perspectives. Students will explore the complexities of health communication through class discussion, case studies and reading on public health, health policy, behaviour change, strategic communication and digital media. Students research and develop strategies, putting into practice ideas about effective and ethical campaigns and their role in developing long-term relationships between health organisations and their publics and stakeholders. Students will develop research and practical skills by working on industry projects.

Seminars

Prerequisites: Enrolment in graduate-level study.

### Health Communication Project (MCM608)

Credit Points: 3

MURDOCH: S2-internal

This is a project-based unit allowing students to apply their theoretical learning to an authentic health communication task in order to develop high-level communication management skills. Students may participate in a client or educator-led project under the supervision of an academic member of staff. Students may work individually or as a member of a team. The precise nature of the project and the assessment requirements are negotiated with the Unit Coordinator.

Individual consultation with academic supervisor (24 hours total).

Filed trips and placements may be made available to the student depending on the project

Prerequisites: Enrolment in graduate-level study. Admittance by consultation with Unit Coordinator

### Health Economics and Finance (SWM518)

Credit Points: 3

MURDOCH: SUM-internal, SUM-external, U-internal, U-external, W-internal, W-external

This unit introduces students to key conceptual frameworks and principles of health care economics. It examines how both Australian and international health care systems are financed and funded. The unit will examine the core theories of supply and demand in health care, including the importance of information (and information asymmetry), the critical role of insurance, hospital financing and delivery, long-term care organisation, pay-for-performance schemes, and private/public mix in finance and provision of health care.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level award.

### Health Law (LLM614)

Credit Points: 3

MURDOCH: S1-internal

This unit will provide an overview of the basic concepts and some current topics in the area where health provision intersects the law. It will cover the national and international legal and regulatory framework - focusing on consent, medical liability and the regulation of practitioners. Controversial topics such as access to medicines and compulsion in treatment will also be introduced in order to explore the limits of the law. Knowledge of the law is not a prerequisite for this unit.

Lectures: Intensive 9am-4pm on Fridays 3 March, 10 March, 17 March and 24 March (with 1 hour break)

Prerequisites: Enrolment in a graduate-level course or enrolment in the LLB(Hons) or enrolment in LLB (only available to students in their final 24 points of the LLB).

### Health Policy and Governance (SWM517)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines national and international health policy from a governance perspective. Governance has become a central concept in many disciplines studying social coordination (e.g. political sciences, public policy, management, economics). This unit covers healthcare governance modes and how the health sector is governed in Australia and other countries. It examines the historical, economic and political influences on current and emerging issues with the purpose of identifying best practices in health policy and reforms.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Prerequisites: Enrolment in a graduate-level award.

### Health Policy in an Australian Context (SHP541)

Credit Points: 3

MURDOCH: S1-external, S2-external

This unit will provide students with an overview of health policy and discusses analysis of health care and public policy in Australia. It will consider the political, economic, social and epidemiological

contexts within which health policies develop and the forces that promote and oppose change. Health policies will be examined to investigate issues of policy, governance and leadership in the health sector.

External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

### **Health Research and Evidence Based Nursing Care (NUR363)**

Credit Points: 4

MANDURAH: S1N-internal

This unit will further develop students' research skills by formally examining quantitative and qualitative research designs, applying these to measurement of health and disease in the community, examining the efficacy of current research projects, evaluating types of evidence and exploring the strength of evidence based practice. Consideration of how to reduce the research/practice gap will also be explored.

Lectures: 1 hour per week; tutorials: 2 hours per week.

Prerequisites: Completion of all Part I core BNurs units.

### **Health Services Project (SHP640)**

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

In this unit students are required to design, conduct and report in journal article format and by seminar presentation a research project addressing an issue related to the coursework area which the student has selected and be undertaken under the supervision of an approved staff member. The proposed topic of study should first be discussed with the Academic Chair.

Fortnightly contact with supervisor.

Prerequisites: NUR632 or SHP632 Applied Health Research Methods: From Research to Practice or equivalent research methodologies unit.

Exclusions: Students who have successfully completed NUR640 Health Services Project may not enrol in this unit for credit.

### **Health, Fitness and Performance Assessment (EXS203)**

Credit Points: 3

MURDOCH: S1-internal

This unit teaches students to perform pre-participation screening, risk appraisal, exercise and performance assessments. Advantages and limitations of various health and fitness assessments will be discussed, together with factors that can influence results. Students will learn how to select and perform appropriate tests for special groups such as athletes, children, older adults and individuals with health conditions. Physiological tests to determine components of fitness such as muscular strength, endurance, power, flexibility, cardiorespiratory fitness and body composition will be performed.

Lectures: 2 hours; laboratories/workshops: 2 hours.

Prerequisites: EXS124 Introduction to Sports Science.

Exclusions: Students who have successfully completed EXS208/CHI208 Health, Fitness and Performance Assessment may not enrol in this unit for credit.

### **Heat and Mass Transfer (ENG203)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Fundamentals of heat and mass transfer are addressed in this unit. The following concepts are covered: introduction of the physical origins and rate equations of heat and mass transfer; identification of the driving forces for different forms of heat and mass diffusion; development of transport models from first principles; steady state and transient solutions; the boundary layer analogies between mass and heat transfer; estimation of the heat and mass transfer convection coefficients; study of heat and mass transfer unit operations.

Lectures/tutorials: 2 x 2 hours per week; laboratories: 2 hours per week.

Students will be shown how to use software programs to carry out system designs that use principles of heat and mass transfer.

Prerequisites: Completion of all Part I units in the majors Chemical and Metallurgical Engineering or Environmental Engineering.

Exclusions: Students who have successfully completed EXM224 Principles of Unit Operations may not enrol in this unit for credit.

### **Histology (BMS321)**

Credit Points: 3

MURDOCH: S1-internal (quota of 30 places) (closed as the offering has reached capacity)

This unit provides a theoretical and practical understanding of human histology, detailing how the four major tissue types (epithelium, connective tissue, muscle, and nerve) organize and integrate to form the organs of the major body systems (cardiovascular, digestive, respiratory, lymphatic, endocrine, integumentary, urinary, nervous and reproductive, as well as embryological). The correlation between microscopic anatomical structure and function of the tissues and organs will be stressed. Practical sessions will develop skills in tissue sectioning, staining and histological interpretation by microscopy.

Lectures: 2 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BMS101 Introduction to the Human Body, BMS107 Vertebrate Form and Function, BIO152 Cell Biology.

This unit is subject to quota. Quota is due to limited laboratory space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

### **Histopathology (BMS325)**

Credit Points: 3

MURDOCH: S2-internal (quota of 20 places)

Histopathology is the stream of clinical pathology focused on the microscopic examination of tissue specimens to investigate cellular abnormalities and diseases. This unit will equip students with knowledge and understanding of general and systemic pathology, including disease processes, with emphasis on the principles and applications of techniques encountered in diagnostic histopathology. It will cover general tissue collection, processing, fixation, and embedding procedures for histopathologic examination, tissue specimen sectioning, histochemistry, immunohistochemistry and special staining procedures, and quality control and assurance.

Lectures/Tutorials: 3 hours per week; laboratory sessions: 3 hours per week.

Prerequisites: BMS321 Histology

This unit is subject to quota. Quota is due to limited laboratory



space and equipment. Preference will be given to students enrolled in Laboratory Medicine (BSc/BLabMed) or Clinical Laboratory Science (BSc).

### History of Missions (THE616)

Credit Points: 3

MURDOCH: S2-internal, S2-external

The unit will examine historical periods in Christian missions when the practice and understanding of mission underwent significant shifts or developments. Historical periods to be studied will include the Anglo-Saxon and Carolingian missions of the early Middle Ages; the Roman Catholic missions of the sixteenth and seventeenth centuries; and the Protestant missions of the nineteenth century.

Lecture: 1 hour per week; Seminar: 1 hour per week

Prerequisites: Enrolment in graduate level study.

### Hollywood and History (HIS250)

Credit Points: 3

Not available this year

This unit explores the intersection of feature film and history, focusing on twentieth century America. Through the lens of feature film we will investigate and interpret some of the key events, personalities and ideas in America's recent past. Topics: the Great Depression, the Cold War, Vietnam War, the assassination of John F. Kennedy and the Civil Rights movement, the cultural 'revolution' of the 1960s and Watergate.

Lectures/workshop: 1 x 2 hours per week

Prerequisites: Nil.

Exclusions: Students who have successfully completed HIS249 Hollywood and History may not enrol in this unit for credit.

### Homicide and Death Investigation (BIO597)

Credit Points: 3

MURDOCH: S2-internal

This unit develops skills and knowledge of police, forensic and crime scene strategies, forensic specialisms, legal frameworks and expert witness testimony in the investigation of suspicious deaths and homicides. Using their skills from this and the other units, students will be performing the role of a forensic/ crime scene investigator during the 'capstone' residential field trip to a dedicated facility, to process a mock murder scene. An expert evidence report will be prepared and presented as testimony in moot court.

Total contact time of 68 hours that will include a combination of Lectures/Workshops, Field trips, Moot Court assessment and revisions

Prerequisites: Enrolment in the Graduate Certificate in Forensic Science (Professional Practice) or Master of Forensic Science (Professional Practice).

### Homiletics (THE618)

Credit Points: 3

Not available this year

The unit examines the theory and practice of religious communication particularly as these relate to preaching in the Christian tradition.

Seminar: 2 hours per week.

Prerequisites: Enrolment in graduate level study.

Exclusions: Students who have successfully completed THE591 Homiletics cannot enrol in this unit for credit.

### Honours Dissertation Preliminary (EGL569)

Credit Points: 3

MURDOCH: S1-internal

The Honours seminar takes students through a range of methodological problems from the most practical ones (how to use the University Library) to thesis writing techniques, the nature of bibliography and textual criticism and an understanding of the theoretical foundations of research in literary studies, creative writing, performance and drama. Problems/issues involving research methods, literary theory and critical analysis will be examined in a systematic manner.

Seminars: 2 hours per week.

Prerequisites: Enrolment in Honours in English and Creative Writing or Honours in Theatre and Drama.

### Honours Dissertation Preliminary (PHL569)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Philosophy.

### Honours Research Seminar (POL501)

Credit Points: 6

MURDOCH: S1-internal, S1-external

This Honours research skills unit examines the research methods employed in a number of the disciplines that form part of the social sciences, with the particular disciplines under consideration being determined by the participants in the Seminar. Students will be trained to understand and employ research skills associated with the discipline or sub-discipline in which their dissertation is located and to recognise the difference between the methods they employ and those employed in other disciplines in the social sciences.

Prerequisites: Enrolment in BA Honours - Honours in Sustainable Development or Politics and International Studies.

### Honours Seminar in Arts (ART503)

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The aim of the Seminar is to help Honours students attain a degree of cohesion and the sense of a research culture, with students working together towards a similar end, despite differences of research interest. It also introduces students to conference-style presentations of research.

Seminars: 2 hours per week every week during a 14 week semester (weeks 1-14, including non-teaching weeks).

Three weekly exercises in Part A.

Prerequisites: Enrolment in an Honours degree course.

A result of Ungraded Pass or Fail is awarded for this unit.

### Honours Seminar in History (HIS503)

Credit Points: 3

MURDOCH: S1-internal

This unit will examine some of the approaches adopted by historians in recent times. Possible topics: traditional research methodology; oral history; biography; feminist history; the future of the discipline.

Seminars: 2 hours per week.

Prerequisites: Enrolment in History with Honours or equivalent.

### Honours Thesis (MBS519)

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Bachelor of Business.

Exclusions: Students who have completed BUS4019 Honours Thesis in Commerce may not enrol in this unit for credit.

### Honours Thesis in Animal Health (VLS515)

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Animal Health.

### Honours Thesis in Animal Science (VLS510)

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Animal Science.

### Honours Thesis in Asian Studies (AST569)

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings by appointment with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Enrolment in Honours in Asian Studies.

### Honours Thesis in Australian Indigenous Studies (AIS569)

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Enrolment in Honours in Australian Indigenous Studies.

### Honours Thesis in Biological Sciences (VLS560)

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Biological Sciences.

### Honours Thesis in Biomedical Science (VLS525)

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Biomedical Science.

### Honours Thesis in Biotechnology (BIO4039-12)

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Prerequisites: Enrolment in Honours in Biotechnology.

### Honours Thesis in Biotechnology (VLS535)

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Biotechnology.

### Honours Thesis in Business Information Systems (ICT520)

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The Honours thesis is designed to teach students to plan and complete a research project in Business Information Systems. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Honours in Business Information Systems.

### Honours Thesis in Business Law (MBL519)

Credit Points: 12

MURDOCH: S1-internal, S2-internal

This unit forms part of the business honours programme and is a demonstration of a student's ability to research and to write about their specific Business Law topic in a thesis. It involves forming an original hypothesis, developing a research instrument, conducting the research, analysing the findings and drawing defensible conclusions. Students work under the direction of a nominated supervisor(s). An Honours thesis is typically 15,000 words in length.

Regular meetings with supervisor(s) as negotiated by the student and nominated supervisor(s).

Prerequisites: Enrolment in Honours in Business Law

Exclusions: Students who have completed BUS4019 Honours Thesis in Commerce may not enrol in this unit for credit.

### Honours Thesis in Chemistry (CHE500)

Credit Points: 18

MURDOCH: H-internal, Y-internal

The Honours year in Chemistry is a short, sharp, and hectic introduction into the process of generating and developing scientific knowledge within university and commercial research environments. As such, Honours students are required to develop a broad range of skills, in both practical chemistry and in communicating their results to a wider audience. In general the required writing, presentation, and critical thinking skills are at a significantly higher level than in the undergraduate program.

Prerequisites: Enrolment in Honours in Chemistry.

### **Honours Thesis in Chiropractic (CHI550)**

Credit Points: 15

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours course aims to train students in independent research as well as to provide advanced studies within the chiropractic discipline. Main areas available are epidemiology, clinical sciences and education. There are 9 points of coursework and 15 points of thesis. Honours complements the skills gained in the undergraduate degree with higher-level research skills in both technical and analytical areas such as critical thinking, self-reliance, initiative, ability to present one's arguments rationally, report writing, communication skills, and information technology proficiency.

Prerequisites: Enrolment in Honours in Chiropractic.

### **Honours Thesis in Communication and Media Studies (CMS512)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Nil.

### **Honours Thesis in Community Development (COD569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

A dissertation in the Honours in Community Development requires a substantive investigation of a relevant Community Development topic under the supervision of a member of the academic staff. Students are required to report the results of their investigation in a dissertation of at most 15,000 words completed in accordance with University requirements.

Prerequisites: Enrolment in Honours in Community Development.

### **Honours Thesis in Computer Science (ICT510)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The Honours thesis is designed to teach students to plan and complete a research project in Computer Science. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Honours in Computer Science.

### **Honours Thesis in Conservation and Wildlife Biology (VLS540)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Conservation and Wildlife

Biology.

### **Honours Thesis in Criminology (CRM539)**

Credit Points: 18

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students undertake a research project under supervision. Students are required to negotiate a research topic in conjunction with a supervisor. Students complete 3 points of the thesis in first semester which prepares them for the research project undertaken in second semester.

Prerequisites: Enrolment in Honours in Criminology.

### **Honours Thesis in Crop and Pasture Science (VLS565)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Crop and Pasture Science.

### **Honours Thesis in Cyber Forensics, Information Security and Management (ICT530)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours thesis is designed to teach students to plan and complete a research project in Cyber Forensics, Information Security and Management. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Cyber Forensics and Information Security Honours.

### **Honours Thesis in Economics (MBS505)**

Credit Points: 12

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Economics.

Exclusions: Students who have completed BUS4009 Honours Thesis in Economics may not enrol in this unit for credit.

### **Honours Thesis in English and Creative Writing (EGL599)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in English and Creative Writing.

### **Honours Thesis in Environmental Management and Sustainability (VLS545)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Environmental Management.

**Honours Thesis in Environmental Science (VLS550)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Environmental Science.

**Honours Thesis in Exercise Physiology (EXS560)**

Credit Points: 15

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The honours thesis is a comprehensive written piece of work that documents why the honours project was conducted, a literature review, experimental methodology, results, findings, conclusion and supporting references.

Prerequisites: Enrolment in Honours in Exercise Physiology.

**Honours Thesis in Forensic Biology and Toxicology (BIO4049-12)**

Credit Points: 12

Not available this year

Prerequisites: Enrolment in Honours in Forensic Biology and Toxicology.

**Honours Thesis in Forensic Biology and Toxicology (VLS520)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Forensic Biology and Toxicology.

**Honours Thesis in Games Art and Design (GAD569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor.

Prerequisites: Enrolment in Honours.

**Honours Thesis in Games Software Design and Production (ICT550)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours thesis is designed to teach students to plan and complete a research project in Games Software Design and Production. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Honours in Games Software Design and Production.

**Honours Thesis in Games Technology (ICT570)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours thesis is designed to teach students to plan and complete a research project in Games Technology. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Games Technology Honours.

**Honours Thesis in Global Politics and Policy (POL579)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The thesis is a distinctive feature of Honours study. It is undertaken with the guidance of an academic supervisor or supervisors and provides training in research, including practice-led research. It is often the largest project that undergraduate students undertake. It involves the development and application of organisational, writing, analytical, creative, technical and problem-solving skills to an advanced level, and the ability to work independently. The thesis builds students' writing and research experiences and broadens opportunities for employment and graduate study.

Prerequisites: Enrolment in Honours in Politics and International Studies.

Exclusions: students who have completed POL4079 Honours Thesis in Politics and International Studies may not enrol in this unit for credit

**Honours Thesis in Graphic Design (IDD569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Prerequisites: Nil.

**Honours Thesis in History (HIS519)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in History.

**Honours Thesis in Internetworking (ICT590)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours thesis is designed to teach students to plan and complete a research project in Internetworking. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Internetworking and Network Security Honours.

**Honours Thesis in Journalism (JOU569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Nil.

**Honours Thesis in Law (LLB580)**

Credit Points: 12

MURDOCH: H-internal, Y-internal

This unit involves the completion of a major research project under the supervision of a member of staff. Students must participate actively in the supervision process and produce a paper of between 15,000 and 20,000 words on a legal topic nominated by him or her and approved by the Law School Honours Sub-Committee. The application to enrol in this unit is available from the School of Law office, or the School website.

No formal contact hours but regular meetings with Supervisor.

Prerequisites: Obtain necessary Weighted Grade Point Average (WGPA) cut-off; permission of Supervisor and Law Honours Subcommittee.

LLB580 Honours Thesis in Law meets the Law degree 'Research and Writing' requirement.

**Honours Thesis in Law, Business and Society (LEG519)**

Credit Points: 15

MURDOCH: Y-internal

Students undertake a research project under supervision. Students are required to negotiate a research topic in conjunction with a supervisor.

Self-directed research and learning along with consultation with the supervisor.

Prerequisites: Enrolment in Honours in Law, Business and Society.

**Honours Thesis in Marine Science (VLS555)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Marine Science.

**Honours Thesis in Mathematics and Statistics (MAS519)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The Honours Thesis provides students with the experience of completing an individual research project in mathematics or statistics. A suitable project topic will be chosen in consultation with one or more supervisors. The Thesis will develop important skills in mathematics and statistics research, writing a substantial thesis and presenting a seminar.

Prerequisites: Enrolment in Honours in Mathematics and Statistics.

**Honours Thesis in Mineral Science (ENG539)**

Credit Points: 18

MURDOCH: H-internal, Y-internal

The Honours year in Mineral Science is a short, sharp, and hectic introduction into the process of generating and developing scientific knowledge within university and commercial research environments. As such, Honours students are required to develop a broad range of skills, in both hands-on extractive metallurgy-related testwork and in communicating their results to a wider audience. In general the required writing, presentation, and critical thinking skills are at a significantly higher level than in the undergraduate program.

Prerequisites: Enrolment in Honours in Mineral Science.

**Honours Thesis in Mobile and Web Application Development (ICT580)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The Honours thesis is designed to teach students to plan and complete a research project in Mobile and Web Application Development. Students will be able to relate and evaluate the outcomes of the research to relevant other studies in the area. They will be able to communicate their research process and outcomes to others in the scientific and broader community.

Prerequisites: Enrolment in Mobile and Web Application Development Honours.

**Honours Thesis in Molecular Biology (VLS530)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Molecular Biology.

**Honours Thesis in Movement Science (EXS594)**

Credit Points: 15

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The honours thesis is a comprehensive written piece of work that documents why the honours project was conducted, a literature review, experimental methodology, results, findings, conclusion and supporting references.

Prerequisites: Enrolment in Honours in Movement Science.

**Honours Thesis in Nursing (NUR569)**

Credit Points: 21

MURDOCH: S1-internal, S2-internal  
MANDURAH: S1-internal, S2-internal

The honours thesis unit provides training in independent study and research and the development of organisational, writing, oral, analytical and problem solving skills to an advanced level. This will be achieved through the design, execution and presentation of a research project under scholarly supervision

Data collection may require visits to a health or other facility depending on the project being undertaken. This must be accompanied by appropriate institutional and HREC permissions.

Prerequisites: Enrolment in Honours in Nursing.



**Honours Thesis in Philosophy (PHL589)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Prerequisites: Enrolment in Honours in Philosophy.

**Honours Thesis in Photography (PHO569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Nil.

**Honours Thesis in Physics and Nanotechnology (PEN589)**

Credit Points: 12

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Physics and Nanotechnology.

**Honours Thesis in Physics and Nanotechnology (PEN599)**

Credit Points: 15

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Physics and Nanotechnology.

**Honours Thesis in Psychology (PSY4039)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

This unit provides students with the opportunity to carry out a piece of empirical research under supervision by a Psychology staff member. Students are expected to negotiate a research topic in conjunction with a supervisor. The thesis reporting the empirical research represents 12 of the 24 points required for the Honours year.

Approximately weekly meetings with the supervisor. This highly-independent research project does not involve regular lectures or tutorials.

Prerequisites: Enrolment in Psychology Honours (BPsych(Hons)). Completion of all 3rd year units required for the 3-year BA degree (B1103).

**Honours Thesis in Public Relations (PRO569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Nil.

**Honours Thesis in Radio (RAD569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours.

**Honours Thesis in Religion (REL569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Religion.

**Honours Thesis in Screen Production (SCR569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Consultation with the student's Honours Supervisor.

Prerequisites: Enrolment in Honours.

**Honours Thesis in Sociology (SOC569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Enrolment in Honours in Sociology.

**Honours Thesis in Sound (SOU569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours.

**Honours Thesis in Sports and Health Science (EXS593)**

Credit Points: 15

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

The honours thesis is a comprehensive written piece of work that documents why the honours project was conducted, a literature review, experimental methodology, results, findings, conclusion and supporting references.

There are no specific timetabled activities.

Prerequisites: Enrolment in Honours in Sport and Health Science.

**Honours Thesis in Sustainable Development (SUS501)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The thesis is a distinctive feature of honours study. It is undertaken with the guidance of an academic supervisor or supervisors and provides training in research, including practice-led research. It is often the largest project that undergraduate students undertake. It involves the development and application of organisational, writing, analytical, creative, technical and problem-solving skills to an advanced level, and the ability to work independently. The thesis builds students' writing and research experiences and

broadens opportunities for employment and graduate study.

This unit involves independent guided research with an academic supervisor. There are no lectures or tutorials.

Prerequisites: Enrolment in Honours in Sustainable Development (BA).

Exclusions: Students who have completed SUS401 Honours Thesis in Sustainable Development may not enrol in this unit for credit.

### **Honours Thesis in Theatre and Drama (EGL589)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Prerequisites: Enrolment in Honours in Theatre and Drama.

### **Honours Thesis in Tourism and Events (TOU569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor. As this is a 12-point unit, students should spend 40 hours per week working on their thesis.

Prerequisites: Enrolment in Honours in Tourism.

### **Honours Thesis in Veterinary Biology (VLS505)**

Credit Points: 21

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

Prerequisites: Enrolment in Honours in Veterinary Biology.

### **Honours Thesis in Web Communication (WEB569)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

The thesis component is an independent research project that allows the student to develop an extended research project and written dissertation.

Regular meetings with supervisor.

Prerequisites: Nil.

### **Honours Topic in Asian Studies A (AST561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in Asian Studies and will be negotiated with your supervisor.

6 x 1 hour meetings with Supervisor, or equivalent. By appointment with staff member.

As this is a 3-point unit students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Asian Studies.

### **Honours Topic in Asian Studies B (AST562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in Asian Studies and will be negotiated with your supervisor.

6 x 1-hour meetings with supervisor, or equivalent. By appointment with staff member.

As this is a 3-point unit, you should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Asian Studies.

### **Honours Topic in Australian Indigenous Studies A (AIS561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in Australian Indigenous Studies and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Australian Indigenous Studies.

### **Honours Topic in Australian Indigenous Studies B (AIS562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in Australian Indigenous Studies and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Australian Indigenous Studies.

### **Honours Topic in Communication and Media Studies A (CMS501)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in communication and media studies and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours

### **Honours Topic in Communication and Media Studies B (CMS502)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in communication and media studies and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Nil.

**Honours Topic in Community Development A (COD561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Community Development.

**Honours Topic in Community Development B (COD562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Community Development.

**Honours Topic in English and Creative Writing (EGL591)**

Credit Points: 3

MURDOCH: S1-internal

Prerequisites: Enrolment in Honours in English and Creative Writing.

**Honours Topic in Games Art and Design A (GAD567)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Games Art and Design, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Enrolment in Honours

**Honours Topic in Games Art and Design B (GAD568)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Games Art and Design, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Enrolment in Honours.

**Honours Topic in Global Politics and Policy (POL500)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

This unit gives students an opportunity to do preparatory work for their honours thesis. Students develop the topic in consultation with their thesis supervisor and undertake the work with the supervisor's guidance. The topic could for instance involve completing an in-depth analysis of concepts relevant to the thesis, investigating pertinent ethical considerations, preparing an annotated bibliography, or conducting a pilot study.

This unit involves independent supervised project work. There are no regular lectures or tutorials.

Prerequisites: Enrolment in Honours in Politics and International Studies.

**Honours Topic in Graphic Design A (IDD561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Graphic Design, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Nil.

**Honours Topic in Graphic Design B (IDD562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Graphic Design, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Nil.

**Honours Topic in History (HIS511)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in History.

**Honours Topic in Journalism A (JOU561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in journalism and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Nil.

**Honours Topic in Journalism B (JOU562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in journalism and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Nil.

**Honours Topic in Mathematics (MAS512)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit covers selected topics in applied or pure mathematics.

Lectures: 3 x 1 hour per week.

Prerequisites: Enrolment in Honours in Mathematics and Statistics.

**Honours Topic in Numerical Analysis (MAS513)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit develops an understanding of and insight into the most important numerical methods used in mathematics and statistics. This will come through discussion of the methods and their theory together with practical computations. Topics covered include error analysis, iteration and convergence, stability; systems of linear equations; matrix eigenvalue problems; solution of non-linear equations; interpolation by polynomials and splines; numerical integration; ordinary and partial differential equations.

Lectures: 3 x 1 hour per week.

Prerequisites: Enrolment in Honours in Mathematics and Statistics.

**Honours Topic in Philosophy (PHL582)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Philosophy.

**Honours Topic in Photography A (PHO561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Creative Arts Research and Practice: The aim of the unit is to help Honours students attain a degree of cohesion between their creative practice and their linked creative research interests. It aims to support a research culture that enables advanced creative arts practice. Students will be working together towards a similar end, despite differences in creative work and research interests. It also introduces students to conference-style presentations of creative research: research undertaken to support the student's creative output.

1.5 hours per week tutorial

2 x 1 hour personal consultations with tutor on practice, related research and exegesis

Presentation of Publication and oral critical introduction to creative project that draws on the exegesis. There may be field trips to view and discuss pertinent exhibitions.

Prerequisites: Enrolment in an Honours course.

**Honours Topic in Photography B (PHO562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

'Photobook'

This unit is a study of the form of the Photobook and it offers opportunity to conduct creative work in tandem with creative and historical research on an important photographic publication form.

Possibly field trips from time to time.

Prerequisites: Enrolment in Honours.

**Honours Topic in Public Relations A (PRO561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in public relations and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours

**Honours Topic in Public Relations B (PRO562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in public relations and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Nil.

**Honours Topic in Radio A (RAD561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours.

**Honours Topic in Radio B (RAD562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Nil.

**Honours Topic in Religion A (REL561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours in Religion.

**Honours Topic in Religion B (REL562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in Honours.

**Honours Topic in Screen Production A (SCR561)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, Y-internal

Candidates undertake a supervised investigation or study intended to refine and contextualise their area of research. Approaches may include: research into genre techniques and conventions; analysis of related films, directors and screenplays; review and analysis of related themes and related concepts or issues. Students use this topic to consolidate knowledge and/or identify their approach to their final thesis.

Consultations to be arranged with the student's Honours supervisor.

Prerequisites: Enrolment in Honours

**Honours Topic in Screen Production B (SCR562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Screen students may use this second topic to develop the creative work that will be produced in their Honours Project. Approaches may include: script development; refining stylistic approaches; investigation into specific techniques, tools, methods, concepts or issues. Students consolidate their creative and logistical approach to their final production.

Consultations to be arranged with the student's Honours supervisor.

Prerequisites: Enrolment in Honours.

### **Honours Topic in Sociology A (SOC561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare students for advanced research in sociology and will be negotiated with the student's supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Sociology.

### **Honours Topic in Sociology B (SOC562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in sociology and will be negotiated with your supervisor.

12 x 1 hour meetings with supervisor, or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Sociology.

### **Honours Topic in Sound A (SOU561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Honours in Sound.

### **Honours Topic in Sound B (SOU562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

Prerequisites: Nil.

### **Honours Topic in Statistics (MAS511)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit covers selected topics in applied and theoretical statistics.

Lectures: 3 x 1 hour per week.

Prerequisites: Enrolment in Honours in Mathematics and Statistics.

### **Honours Topic in Sustainable Development (SUS500)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external

This unit gives students an opportunity to do preparatory work for their honours thesis. Students develop the topic in consultation with their thesis supervisor and undertake the work with the supervisor's guidance. The topic could for instance involve completing an in-depth analysis of concepts relevant to the thesis, investigating pertinent ethical considerations, preparing an annotated bibliography, or conducting a pilot study.

This unit involves independent supervised project work. There are no regular lectures or tutorials.

Prerequisites: Enrolment in Honours in Sustainable Development.

### **Honours Topic in Theatre and Drama (EGL581)**

Credit Points: 3

MURDOCH: S1-internal

Prerequisites: Enrolment in Honours in Theatre and Drama.

### **Honours Topic in Tourism and Events A (TOU561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare students for advanced research in tourism and/or events and will be negotiated with the student's supervisor.

10 x 1 hour meetings with supervisor or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Tourism.

### **Honours Topic in Tourism and Events B (TOU562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare students for advanced research in tourism and/or events and will be negotiated with the student's supervisor.

10 x 1 hour meetings with supervisor or equivalent. As this is a 3-point unit, students should spend 10 hours per week working on this unit.

Prerequisites: Enrolment in Honours in Tourism.

### **Honours Topic in Web Communication A (WEB561)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Web Communications, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Nil.

### **Honours Topic in Web Communication B (WEB562)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

This topic aims to prepare you for advanced research in theoretical and or practice based study in Web Communications, and will be negotiated with your supervisor.

Regular meetings with supervisor.

Prerequisites: Nil.

### **Hospitality and Tourism Project (TOU306)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The management of Hospitality and Tourism contributes to one of the world's largest industries. Students undertaking this unit will design their own research project that provides for a focus on an area of hospitality and tourism, of their own choice.

2 hour Seminar/Workshop

Pre Workshop Activities: Post Workshop Activities: Podcasts, Field Work

Prerequisites: T0U221/T0U201 Sustainable Tourism; BSL204/BUS207 Tourism and Hospitality Law; BUS293/BUS223 Organisational Theory and Behaviour.

### Human Anatomy I (CHI108)

Credit Points: 3

MURDOCH: S2-internal

CHI108 is a systems-based human gross anatomy unit which builds upon the introductory unit CHI168. The Integumentary, Skeletal, Muscular, Nervous, Endocrine, Cardiovascular, Lymphatic, Respiratory, Digestive, Urinary and Reproductive Systems are covered in CHI108. The students will utilise lectures, tutorials, living anatomy practicals and cadaveric anatomy laboratory classes to gain a solid understanding of gross anatomy.

Lectures: 1 X 2 hrs per week; Tutorials: 1 hr per week; Cadaveric Anatomy Laboratory: 1 hr per week; Living Anatomy practical: 1 hr per week.

Prerequisites: CHI168 Introduction to Human Musculoskeletal Anatomy OR BMS101 Introduction to the Human Body.

Exclusions: Students who have successfully completed BMS108 Comparative Musculoskeletal Anatomy or CHI108 Functional Human Anatomy may not enrol in this unit for credit.

### Human Anatomy II (CHI255)

Credit Points: 3

MURDOCH: S1-internal

This unit has a regional clinically-oriented approach to gross human anatomy. The regions covered in this unit are the head and neck, visceral structures and the central nervous system. Emphasis is placed on the viscera, autonomic innervation, referred pain and the anatomical basis of common pathologies. Practical classes consists of prosection labs (the viewing of human cadavers), living and radiographic anatomy.

Lectures: 2 x 1 hour per week; workshop: 1 hour per week; laboratories: 1 hour per week; practicals: 2 x 1 hour per week.

Prerequisites: CHI108 Human Anatomy I

Exclusions: Students who have successfully completed CHI280 Human Anatomy I may not enrol in this unit for credit.

### Human Anatomy III (CHI234)

Credit Points: 3

MURDOCH: S2-internal

This unit has a regional clinically-oriented approach to human gross anatomy. The regions covered in this unit are the trunk and limbs and the central nervous system. Emphasis is placed on the musculoskeletal system, somatic innervation and the anatomical basis of common pathologies. Practical classes consist of prosection labs (the viewing of human cadavers), living and radiographic anatomy. The unit is based on a medical undergraduate anatomy curriculum.

Lecture: 1 x 1 hr (radiology) per week; Lecture: 1 x 2 hr (anatomy) per week; Practical: 1 x 1 hr (radiology) per week; Practical: 1 x 1 hr (living anatomy) per week; Laboratory: 1 x 1 hr (cadaveric anatomy) per week

Prerequisites: CHI108 Introduction to Human Anatomy I

Exclusions: Students who have successfully completed CHI282 Human Anatomy II may not enrol in this unit for credit.

### Human DNA Profiling (BIO599)

Credit Points: 3

MURDOCH: S2-internal

This unit will develop theoretical and practical application of forensic DNA profiling, including the biology, technology and genetics that underpin the discipline of human DNA profiling. The interpretation of DNA evidence will be examined in detail and students will analyse complex (mixed/degraded) profiles and familiarisation with the statistical analysis that is involved in human population genetics. The course will also provide the opportunity to develop key transferable skills including research techniques, critical analysis and communication skills.

Lectures/workshops: 28 hours over 11 teaching weeks weeks; practical work or equivalent: 27hrs over 9 teaching weeks; seminar/workshop revision session: 1 x 5 hours in week 14.

Prerequisites: Enrolment in the Graduate Certificate in Forensic Science (Professional Practice) or Master of Forensic Science (Professional Practice).

### Human Factors in Information Technology (ICT612)

Credit Points: 3

MURDOCH: S1-internal

Covers the human factors (HCI) aspects of Information Technology at four levels: individuals, groups, national and international. Discusses methods of design and evaluation used to produce efficient, effective and satisfying user interfaces, multimedia products and websites. Also considers the various forms of computer-mediated communication, groupware, virtual reality, augmented reality, ubiquitous computing and mobile technologies. Relates theoretical concepts to practical techniques within a fair socio-technical context.

Lectures/tutorials: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level IT course.

Each weekly 3-hour session is spent as follows. The first hour consists of a lecture outlining important conceptual issues, theories and case studies. The second hour consists of a scholarly skills workshop, designed to equip students with a range of seminar, analysis, critical thinking, research and presentation skills. The third hour consists of a reading group, in which one or more students summarise and lead a discussion about selected papers of interest on the unit topics.

### Human Factors: The Impact on Patient Safety (SHP602)

Credit Points: 3

MURDOCH: S2-external

The study of Human Factors provides understanding of human characteristics and applies this to improving the design of machines, systems and team environments to reduce the likelihood of error in health care.

This unit examines cognitive and behavioural characteristics that make humans error prone. Strategies to improve the human-machine interface and human to human interactions will be identified and examined. The unit focuses on achievable ways of using human factors to build defences into the healthcare system to protect patients.

External: No attendance required.

Prerequisites: Enrolment in a graduate course.

Exclusions: Students who have successfully completed NUR602 Human Factors: The Impact on Patient Safety may not enrol in this unit for credit.

**Human Physiology (EXS102)**

Credit Points: 3

MURDOCH: S2-internal

This unit will provide students with information pertaining to the human body and the various systems within the body that act to maintain homeostasis. Specifically, students will learn about human physiology through examination of the cardiovascular, pulmonary, digestive, excretive and immune systems. Throughout this unit, students will be introduced to various disease states that can influence and ultimately unbalance the human system. Additionally, other stressors including environment and physical activity will be discussed.

Lectures: 2 hours per week; Laboratory sessions: 2 hours per week, in weeks starting on (21/8/2017), (18/9/2017),(2/10/2017) and (23/10/2017).

2 hour computer lab on week starting (15/8/2017).

Prerequisites: Nil.

**Human Resource Economics (BUS301)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

It is increasingly recognised that efficient use of human resources is a key determinant of the performance of enterprises and nations. This unit will apply economic analysis to human resource decision making. Topics: the hiring decision, the training decision, job hierarchies within the organisation, remuneration issues and the growth of flexible working arrangements.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS375/BUS275 Human Resource Economics may not enrol in this unit for credit.

**Human Resource Management Law (MBL501)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit is about law relevant to the recruitment, performance and termination of employment relationships in Australia. It investigates the legal relationship between an employer and employee. Coverage of federal legislation is a focus, with a study of contractual rights and obligations, legislated minimum standards, awards, enterprise bargaining and dismissal.

Seminars: 2 hours per week

Prerequisites: Enrolment in a graduate-level course

Exclusions: Students who have completed MBS501 Human Resource Management Law may not enrol in this unit for credit.

**Human Resource Management Perspectives (MBS555)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit presents an overview of the management of human resources from the perspectives of HR practitioners and line managers. It examines practical and theoretical aspects of strategic and operational Human Resource Management. Topics such as

recruitment and selection, training and development, performance management and remuneration for the organisation's most valuable asset are covered. Changing views on Human Resource concepts, processes, applications and evaluation will be canvassed. (MHRM students are advised to select this unit early in their course.)

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS617/MBS6171 Human Resource Management Perspectives may not enrol in this unit for credit.

**Human Resources (PSY568)**

Credit Points: 3

MURDOCH: S1-internal

This unit deals with traditional issues in the management of human resources in organisational and service settings. Topics cover theoretical and practical problems of human resource management, including job analysis, recruitment and selection, performance management, performance appraisal, and human resource development. Treatment of these topics deals with both the organisation's welfare (which enables it to offer a stable environment to its work force) and the well-being of individual employees as this is affected by personnel practices.

3-hour weekly seminar classes during teaching weeks of S1.

Prerequisites: Enrolment in Pg or GradCertOHRS or Pg or GradDipConsultPsych or MAppPsych or MAppPsych/PhD or DPsych or, for other Masters students, permission of the Unit Coordinator.

**Human Rights Law Clinic (LLB387)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit is a clinical legal education unit which allows students to put their legal knowledge into practice within an active human rights practice. Students will interview clients, research and formulate advice, draft documents and assist the client before tribunals, courts and the United Nations under the close supervision of our lawyers and migration agents.

2-hr seminars in Weeks 6, 8, 10, 12

1 full day attendance at the Law Clinic and otherwise as required. Contact times will vary: contact Unit Coordinator for further information.

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB308 Introduction to Legal Practice

Exclusions: Students who have successfully completed LAW387 Human Rights Law Clinic may not enrol in this unit for credit.

Students need to complete an Expression of Interest to apply for enrolment in this unit. For more information please contact the School of Law office.

A result of Ungraded Pass or Fail is awarded for this unit.

**Hydrometallurgy (ENG326)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit considers the principles and applications of pre-treatment, leaching, solution purification and metal recovery to the hydrometallurgical processing routes for metals/alloys, ores, concentrates and recycled materials. It also considers practical

industrial processes, and discusses overall processes for the recovery of gold, copper, nickel, uranium etc. and value added commodities related to the Australian and global mineral and metallurgical industry.

Lectures/workshops: 1 x 4 hours per week; laboratories; 1 x 3 hours per week

Students will participate in a plant visit during the semester to appreciate the scale of industrial operations and meet with the managers and discuss their potential vacation employment opportunities. They will also attend various research seminars presented by graduate students and invited industry speakers.

Prerequisites: ENG202 Engineering Thermodynamics, ENG255 Chemical Process Kinetics, ENG205 Process Mineralogy, and either/both ENG201 Fluid Mechanics and ENG203 Heat and Mass Transfer or ENG224 Principles of Unit Operations.

Exclusions: Students who have successfully completed the unit EXM357 Extractive Metallurgy may not enrol in this unit for credit.

Unit Study Guide provided. Internet access required and compulsory 3-day on-campus laboratory session. Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of each teaching period.

### ICT in the Classroom (EDN206)

Credit Points: 3

MURDOCH: S2-external

This unit is designed as a general elective for those interested in using information and communications technologies (ICTs) to support student learning in primary and/or secondary school classroom (K-12). It is not aimed specifically at those who wish to teach an ICT class. Rather, it provides an introduction to the use of technologies as powerful tools for learning in all subject areas using real-world contexts.

The online unit (LMS) provides valuable online resources, together with links to other sites and services needed to complete the tasks. Online lectures and discussion forums on the LMS will also assist learning.

Prerequisites: Successful completion of EDN113 or permission of the Unit Coordinator

To undertake study in this unit, you will need access to a computer and:

- . Internet access
- . Web camera and audio (or access to a computer with these facilities)

A suite of software programs including word processing and presentation programs, such as Microsoft Office (Word, PowerPoint) or Apple iWork (Pages, Keynote).

### Ideas and Identity (BAR150)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit explores the power of ideas to change the world, focusing on their birth, transmission, evolution, and global impacts. Through the study of selected themes, such as violence or the relationship between the individual and the community, students are introduced to the ideas and approaches central to the arts, social sciences and humanities, and are invited to reflect on competing moral and social arguments. Writing and critical thinking skills are a core focus of the unit.

Lectures: 1 hour per week; tutorials: 1.5 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed SSH100 Ideas in Action may not enrol in this unit for credit.

### Ideas in Education (BED100)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit helps develop the skills and understandings needed to study successfully in Education. You will learn how to communicate effectively in speech and in writing (including academic writing); engage in critical thinking and problem solving about education topics; explore strategies for independent and collaborative learning; and practise reading with purpose and with understanding. You will also begin to investigate and discuss some key ideas and current debates in Education, as preparation for more in-depth exploration in later units.

Lectures/workshops: 3 hours per week.

Prerequisites: Enrolment in an initial teacher education course.

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

### iHealth (KAC004)

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is intended to increase students' awareness of health related issues affecting the wider Aboriginal community. As part of this unit students will explore Indigenous health from various perspectives; medical, cultural and personal. This is a practical, hands-on unit, where students will be exposed to a variety of experiences, ranging from learning First Aid, to conducting their own medical research and to interacting with staff and students from the health and human services disciplines.

Lectures/workshops: 2 hours per week; workshops: 2 hours per week.

As part of this unit students will also:

- \* receive two Health Assessments
- \* visit Murdoch University Health facilities
- \* take part in weekly practicals.

Prerequisites: Enrolment in KTrack Enabling program. Students considering enrolling in the part-time study option need to have completed KAC001 and KAC002 before attempting this unit.

### Immunology, Genetics and Microbiology (CHI205)

Credit Points: 3

MURDOCH: S1-internal

Lectures: 3 x 1 hour per week; laboratories: 3 x 1 hour in weeks 2, 3 and 9.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BChiro) and successful completion of Year 1.

### In-Country Studies Indonesia (ART307)

Credit Points: 6

MURDOCH: S1-external, S2-external, SUM-internal, SUM-external, U-internal, U-external

Through the Australian Consortium for 'In-Country' Indonesian Studies (ACICIS), students undertake studies in English language at an Indonesian university or they combine some studies in English with professional placements in urban or rural areas. Applicants are expected to have some background in the field they want to pursue.

Determined by Indonesian host university.



Prerequisites: Permission of the Academic Chair and selection by The Australian Consortium for 'In-Country' Indonesian Studies (ACICIS)

A result of Ungraded Pass or Fail is awarded for this unit.

### **In-Country Studies Indonesia (ART607)**

Credit Points: 6

MURDOCH: SUM-internal, U-internal

Through the Australian Consortium for 'In-Country' Indonesian Studies (ACICIS), students undertake studies in English language at an Indonesian university or they combine some studies in English with professional placements in urban or rural areas. Applicants are expected to have some background in the field they want to pursue.

Determined by Indonesian host university.

Prerequisites: Enrolment in a graduate-level course, approval of the Academic Chair and selection by In-Country' Indonesian Studies (ACICIS),

A result of Ungraded Pass or Fail is awarded for this unit.

### **In-Country Studies Indonesia (ART607-1)**

Credit Points: 12

Not available this year

Prerequisites: Enrolment in a graduate-level course, approval of the Academic Chair and selection by In-Country' Indonesian Studies (ACICIS),

A result of Ungraded Pass or Fail is awarded for this unit.

### **Inclusive Education (EDN449)**

Credit Points: 3

MURDOCH: S1-external, S2-internal, S2-external

This unit focuses on the special educational needs of children who may be 'at risk' of developmental delay or educational difficulties, either through impairments or disabilities, or for other reasons. In doing so, this Unit considers whole school, community, classroom, early learning centres, and individual teaching and learning adjustments to meet diverse children's needs. The unit seeks to assist participants to identify and understand diverse learning needs, develop and implement strategies to enhance learning outcomes, and monitor progress.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Enrolment in the Bachelor of Education and successful completion of or enrolment in EDU245 Learning and Assessment Processes or EDU241 Processes of Learning or EDU242 Learning and Assessment: Theory and Practice or equivalent; or EDN221/EDN208 Learning, Teaching and Assessment 1 or EDN222 Learning, Teaching and Assessment 2 or BED200 Assessment and Action Research or enrolment in Graduate Certificate in Inclusive Education, Graduate Diploma in Education (Secondary); Graduate Diploma in Education Studies. Students without the prerequisite should consult the Unit Coordinator.

### **Inclusive Education: Contemporary Perspectives and Practices (EDN509)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit seeks to assist participants to identify and understand diverse learning needs, develop and implement strategies to enhance learning outcomes, and monitor student progress. This unit explores inclusive education; its history, ideology and most

importantly, its realisation in education settings. This unit will assist students in developing depth of understanding about inclusive education policy and practice across contexts. It explores factors that support education systems and classroom teachers to provide quality learning environments for all students.

Seminars: 3 x 2 hr Seminars at the start of semester. Lectures 1hr per week.,

Students are expected to apply their learning in this unit as part of their Professional Internship: Preliminary and Professional Internship.

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary) or the Graduate Certificate in International Education in Schools.

### **Indigeneity, Critical Theory and Social Justice (AIS307)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit expands students' understanding of 'social justice' in Indigenous contexts from one-dimensional perceptions of the amelioration of Indigenous disadvantage to a deeper and more nuanced appreciation of the interplay between instances of inequity, social and political logics and the remedies these attempt to generate. It does this by exploring some of the exciting work being produced in this area by Australian Indigenous and other (including international) thinkers whose critical focus is identity and social and economic marginalisation.

Lectures/workshop: 1 x 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have completed AIS303 Indigeneity, Critical Theory and Social Justice may not enrol in this unit for credit.

### **Indigenous Australia and the Nation (AIS204)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores contemporary debates over the relationship between Indigenous Australia and the Australian nation-state. It asks why it is that, after self-determination, land rights, reconciliation and other movements of recent decades, the goal of a unified, inclusive Australia has yet to be realized. It attempts to answer this question by exploring how competing versions of recent Australian history have fostered a division between left- and right-wing politics that continues to confound more subtle, progressive responses to Indigenous inequity.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed AIS205 Australian Indigenous Politics: Historical Contexts and Contemporary Issues may not enrol in this unit for credit.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement.



**Indigenous Health and Cultural Diversity (NUR210)**

Credit Points: 3

MURDOCH: S2N-internal  
MANDURAH: S2N-internal

This unit focuses on understanding the impact of culture on the health of Indigenous people and those from culturally diverse backgrounds. Historical, economic and psycho-sociocultural determinants that impact on health will be investigated. Topics relevant to the provision of cultural nursing care including models of culture and cultural parameters of health beliefs, and family patterns and socialisation will be examined. Clinical skills development for nursing care will focus on cultural competence, cross-cultural communication, cultural health assessment, and liaison and advocacy.

Lectures: 1 hour per week; Tutorials: 2 hours per week.  
Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Prerequisites: Enrolment in Bachelor of Nursing; completion of all Year 1 Nursing units.

Exclusions: Students who have successfully completed NUR152 Indigenous Health may not enrol in this unit for credit.

**Indigenous Peoples, Law and Society (LEG203)***As for LLB203 except:*

Credit Points: 3

MURDOCH: S2-internal, S2-external

2 hour lecture weekly. 24 hours of lectures/seminars shared with LLB code.

Prerequisites: LEG100 Law, Justice and Social Policy

Exclusions: LLB203 Indigenous Peoples, Law and Society.

**Indigenous Peoples, Law and Society (LLB203)**

Credit Points: 3

MURDOCH: S2-internal

Examines the relationship between Indigenous people, law and society and involves situating Australian law in its historical, political and societal contexts as it relates to Indigenous peoples. It examines Indigenous legal issues in Australia, including the history and development of Australian law, impact of that law on Indigenous people, and Indigenous perspectives on that law. It provides valuable student learning experiences in understanding plurality of Australian law, including understanding, discussing, and analysing particular themes and legal topics in relation to Indigenous peoples.

2 hour lecture weekly. 24 hours of lectures/seminars shared with LEG code.

Prerequisites: BJU150 Law in Context and BJU100 Australian Legal System

Exclusions: LEG203 Indigenous Peoples, Law and Society.

**Indigenous Tourism Issues (TOU231)**

Credit Points: 3

Not available this year

This unit is concerned with the involvement of indigenous peoples in tourism. It examines the impacts of tourism on indigenous peoples from the emic and etic points of view along the spectrum from commoditisation of culture and the 'museumisation' of

peoples, to the role of tourism in resurrecting and strengthening the value of indigenous practices and culture. Case studies include Aboriginal Australia, the South Pacific, Asia and East Africa. Participation in field trips on a cost recovery basis is required.

2.5 hour workshop per week

Blended Learning approach. Field work in own time.

Prerequisites: Nil.

**Indonesian 1 (IND101)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This is a beginning unit for students who have no previous knowledge of Indonesian. The emphasis is wholly on conversation, with reading and writing skills based on conversational materials.

Lecture: 1 hour per week; workshops: 2 x 1 hour per week (small group conversations.)

Lectures are pre-recorded to provide accurate pronunciation.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: Nil.

Exclusions: Intermediate or advanced students who have some knowledge of Indonesian or Malay, for example:

- Native speakers of Indonesian or Malay.
- Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system.
- Students who have studied Indonesian in Years 11 and 12, or successfully completed Indonesian Second Language ATAR or equivalent.
- Students who have successfully completed IND161 Indonesian 1 cannot enrol for credit in this unit.

Advanced students including those who have Indonesian Second Language: ATAR, WACE qualification in Indonesian as Second Language or equivalent must consult the Unit Coordinator to determine level of entry before enrolling in this unit. This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement. If taken as a University-Wide Breadth Unit, this unit will contribute to satisfying that Part II requirement of the Bachelor degree, however its credit points will be counted as Part I points; students should note that no more than 30 credit points at Part I may be credited towards course completion requirements.

**Indonesian 2 (IND102)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit builds on the proficiency achieved in elementary Indonesian IND101, Indonesian 1, and widens its scope. The emphasis is on conversation, with reading, writing skills based on conversational materials.

Lecture: 2 x 1 hour per week; workshops: 2 x 1 hour per week (small group conversations.)

Lectures are pre-recorded to provide accurate pronunciation.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND101 Indonesian 1 or equivalent level of competency as assessed by the Unit Coordinator.

Exclusions: Intermediate or advanced students who have some knowledge of Indonesian or Malay, for example:

- a) Native speakers of Indonesian or Malay.
- b) Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system.
- c) Students who have studied Indonesian in Years 11 and 12, or successfully completed Indonesian Second Language ATAR or equivalent.
- d) Students who have successfully completed IND162 Indonesian 1B cannot enrol for credit in this unit.

Advanced students including those who have Indonesian Second Language: ATAR, WACE qualification in Indonesian as Second Language or equivalent must consult the Unit Coordinator to determine level of entry before enrolling in this unit.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement. If taken as a University-Wide Breadth Unit, this unit will contribute to satisfying that Part II requirement of the Bachelor degree, however its credit points will be counted as Part I points; students should note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Indonesian 3 (IND201)

Credit Points: 3

MURDOCH: UA3-internal, UA3-external

This is a unit for students with intermediate knowledge of Indonesian. The aim is to develop formal language skills in reading, writing, speaking and listening.

Lectures: 2 x 1 hour per week; Workshops: 2 x 2 hours per week; Weeks 1-7 inclusive.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND102 Indonesian 2 or equivalent level of competency as assessed by the Unit Coordinator.

Exclusions: 1. Native speakers of Indonesian or Malay.  
2. Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system.

The continuation of this unit, i.e. IND202 Indonesian 4, is also run in semester 1 only. Students who enrol in IND201, usually enrol in IND202 in the same semester.

### Indonesian 4 (IND202)

Credit Points: 3

MURDOCH: AU1-internal, AU1-external

This is a unit for students with intermediate knowledge of Indonesian. The aim is to develop formal language skills, particularly in academic writing, reading, speaking and listening.

Lectures: 2 x 1 hours per week  
Workshops: 2 x 2 hours per week; Weeks 8-14 inclusive.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND201 Indonesian 3 or equivalent level of competency as assessed by the Unit Co-ordinator.

Exclusions: 1. Native speakers of Indonesian or Malay.  
2. Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system.

### Indonesian 5 (IND203)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This is a unit for students with intermediate knowledge of Indonesian. The aim is to develop formal language skills, particularly in academic writing, reading, speaking and listening.

Lectures: 1 hour per week; workshops: 2 x 1 hour per week.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND202 Indonesian 4 or equivalent level of competency as assessed by the Unit Co-ordinator.

Exclusions: 1. Native speakers of Indonesian or Malay.  
2. Students from countries where Indonesian or Malay is a partial or complete medium of instruction on the educational system.

### Indonesian 6 (IND301)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops strengths in reading, writing, conversation and listening comprehension, with grammar and style taught in relation to these components.

Lectures: 1 hour per week; workshops: 2 x 1 hour per week.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND203 Indonesian 5.

Exclusions: Students who are native speakers of Indonesian or Malay, and students from countries where Indonesian or Malay is a partial or complete medium of instruction in the educational system, may not enrol in this unit for credit.

### Indonesian 7 (IND302)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit develops strengths in reading, writing, conversation and listening comprehension, with grammar and style taught in relation to these components. Indonesian is used increasingly in instruction and class communication.

Lecture: 1 hour per week; workshops: 2 x 1 hour per week.

Students are given opportunities to practise their Indonesian with students from Indonesian and Australian universities via online UniBridge project.

Prerequisites: IND301 Indonesian 6.

Exclusions: Students who are native speakers of Indonesian or Malay, and students from countries where Indonesian or Malay is a partial or complete medium of instruction in the educational system, may not enrol in this unit for credit.

### Indonesian Advanced Language Project (IND652)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is designed primarily for students who have completed one year of in-country Indonesian language studies, and aims to develop further advanced language proficiency. Students will examine some issues relevant to translation as well as doing advanced practical work in reading, translation and other skills using a range of contemporary materials



3 hours per semester or by negotiation.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) Asian Studies course and permission of the Unit Coordinator.

### **Industrial and Commercial Energy Efficiency Technologies (PEN626)**

Credit Points: 3

Not available this year

This unit is the second of two units that look at advanced methods in energy efficiency. Topics: heat exchangers, advanced process integration, boilers and steam distribution, cogeneration, electric motors, refrigeration and heat pumps, pumps and fans, dryers, separation and concentration processes.

The unit is co-ordinated and run for students by staff at Massey University in New Zealand as part of a co-operative agreement where Murdoch students can undertake units at Massey and Massey students can undertake units at Murdoch.

External: no attendance required.

There is no attendance required for external students.

Prerequisites: PEC594/PEN594 Energy Management or equivalent, plus enrolment in Master of Science in Renewable Energy/Master of Renewable Energy.

Co- or prerequisite: PEC425/PEC625/PEN625 Energy Efficiency, System Analysis and Auditing.

This unit is taught externally/online by staff from Massey University with tutorial support from Murdoch staff. It is only offered every second year.

### **Industrial Bioprocessing and Bioremediation (BIO358)**

Credit Points: 3

Not available this year

Microbes play a key role in industrial and environmental bioprocesses such as pharmaceutical and food production, waste treatment, renewable energy generation and environmental bioremediation. The principles of these bioprocesses are studied using a problem-based approach. The unit investigates how microbial reactions can be predicted and controlled and how oxygen, pH and other conditions affect different bioprocesses. Example topics are: pollutant biodegradation, algae culture, vitamin, antibiotic and beer/wine production, bioleaching, bio-fuels, bio-electricity, bioreactor design and control.

Lectures: 3 hours per week; laboratories/tutorials: 5 sessions; bioreactor group project over 2 weeks.

Prerequisites: CHE144 Foundations of Chemistry/PEC144 Principles of Chemistry and BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology.

This unit is not available in 2016 - contact the Biotechnology Academic Chair for advice regarding an alternative option.

### **Industrial Computer Systems (ENG617)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit builds upon previous studies in industrial computer based systems associated with the acquisition, processing and analysis of signals. The unit uses a project based approach to provide an opportunity to explore the specification, design, commissioning and testing phases of typical systems development and upgrades. A variety of systems will be used including pilot plant SCADA like systems and standalone control systems.

Meetings/laboratories: by arrangement with the Unit Coordinator.

Prerequisites: ENG501 PLC Applications; ENG502 Computer Based Measurement and Control; ENG564 Industrial Instrumentation Technologies. Enrolment in the Master of Engineering.

### **Industrial Computer Systems Design (ENG447)**

Credit Points: 3

MURDOCH: S1-internal

Lectures/workshops: 1 x 3 hours per week; laboratories: 1 x 3 hours per week.

### **Industrial Computer Systems Design (ENG454)**

Credit Points: 4

Not available this year

This unit is concerned with the design, specification, and implementation of a process control system, with emphasis upon the industrial computer system, including the following aspects: operator interfaces, historical trending, alarms, interlocks, safety, I/O cabling and wiring, software architecture, point configuration, real-time database startup and shutdown, simulation, testing commissioning and documentation. The unit will require students to implement practical solutions to industrial problems drawing upon their background in preceding units.

Lectures: 2 hours per week; workshops: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: ENG305 PLC Systems; ENG306 Realtime and Embedded Systems; ENG345 SCADA and Instrument Systems.

### **Industrial Signals and Systems (ENG514)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

This unit aims to provide an understanding and practical experience with the acquisition, processing and analysis of signals obtained from typical engineering systems. It essentially represents a culmination of the material under the broad category of signals and systems. Although a range of theoretical concepts are addressed, emphasis is upon using modern computer-based hardware components and software packages.

Meetings/laboratories: by arrangement with the Unit Coordinator.

Prerequisites: Enrolment in the Master of Engineering or Graduate Diploma in Engineering.

Students are expected to have experience in at least one programming language and fundamental knowledge of electrical circuits and electronics.

### **Infectious and Emerging Diseases (VET640)**

Credit Points: 3

MURDOCH: S2-external

This unit will provide students with the knowledge about emerging endemic and epidemic infectious diseases that have a significant impact on livestock production. Both infectious and non-infectious diseases will be discussed and emphasis will be placed on those diseases with significant impact on trade, herd/flock productivity and human health.

Seminars as required.

Prerequisites: Enrolment in Master of Veterinary Studies in Veterinary Surveillance, Master of Biosecurity or permission of the Academic Chair.

**Infectious and Parasitic Diseases (VET629)**

Credit Points: 3

Not available this year

This unit reviews diagnosis and treatment of the major infectious and parasitic diseases of companion animals with an emphasis on the organisms of greatest importance in the Australian and Asian regions. Zoonotic diseases and the principles of infectious disease control are also discussed.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

**Information Security Management (ICT357)**

Credit Points: 4

Not available this year

This unit examines the process of securing organisational information resources from strategic and tactical perspectives. Students will study organisational threats and vulnerabilities, and methods for securing different types of resources as well as ethics, legal issues and governance. They will gain experiential knowledge by working collaboratively at an advanced level, integrating knowledge from a wide range of domains to identify the vulnerability of organisations' information holdings and develop measures to protect these assets.

Lectures: 1 x 1 hours per week; workshop: 1 x 2 hours per week.

Prerequisites: ICT265 Knowledge and Information Security or ICT256 Knowledge Management Techniques or permission of the Academic Chair.

**Information Security Policy and Governance (ICT380)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

This unit covers the advanced study of Information Security Policy and Governance at an organisational level. Students will gain an understanding of standards and policies as well as international, national and local regulatory requirements governing organisational information technology systems. The unit will address relevant data protection legislation, industry best practices, risk management techniques and develop the necessary skills to evaluate and measure organisational compliance and to determine appropriate organisational strategy to best support the information security needs.

Workshop: 1 x 3 hours per week.

Prerequisites: ICT284 Systems Analysis and Design.

Exclusions: ICT357 Information Security Management

**Information Systems Management (ICT292)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TJD-internal  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit explores the acquisition, development and implementation of information systems and infrastructure that support the operational, administrative and strategic needs of

organisations. Students will develop the ability to critically assess existing information technology infrastructures, emerging technologies and various IS governance frameworks. Sourcing options for the acquisition of information systems and technologies will be evaluated in the context of organisational needs. This unit prepares students for deeper study of information systems in their final year.

Workshops/seminars: 1 x 2 hours per week; laboratories: 1 x 1 hour per week.

Prerequisites: ICT158 Introduction to Information Systems OR ICT107 Principles Information Systems OR ICT170 Foundations of Computer Systems.

**Information Systems Research Topic (ICT704)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The purpose of this unit is to introduce students to an advanced topic of current interest within the information systems research community. The exact topic studied in this unit varies as the topic will be taught by an active researcher in that area. Possible topics include: advanced human computer interaction, electronic commerce, small business IT use.

Seminars: 2 hours per week.

Prerequisites: Enrolment in the Doctor of Information Technology.

**Information Technology Literature Review (ICT576)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The aim of this unit is to support IT honours students by studying the broader research literature in an area of Information Technology. Students will critically review the important works in their chosen area of study. It will give them the skills to be able to discover and analyse the body of literature in their area of study and therefore contribute to their ability to design a quality honours project.

Tutorials: 1 hour per week; seminars: 1 hour per week. The Supervisor/Unit Coordinator will plan these meetings with the student.

Prerequisites: Enrolment in an Information Technology Honours course.

**Information Technology Project (ICT333)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

This capstone unit gives students a 'real-world' experience of IT solution development. Teams of students are assigned projects with clients from academia, NGO's and industry. Teams will build on the skills developed during the study of their majors in areas such as process modelling, systems design, and implementation of IT solutions relevant to the assigned project. The project culminates with a public presentation of the project deliverables. Students are expected to enrol in this unit in their final teaching period.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Supervisor meetings: 1 hour per week.

Prerequisites: ICT218/ICT285 Databases or ICT362/ICT377 Network Security.

This is the capstone unit and as such only students who will be eligible to graduate on the successful completion of the teaching period may enrol in this unit. Students who do not meet this criterion may apply to the unit coordinator for early enrolment.

Only in exceptional circumstances will this be considered.

### Information Technology Project Management (ICT508)

Credit Points: 3

MURDOCH: S2-internal

This unit will cover the principles and practices of managing the development of IT systems, and investigates appropriate tools and techniques based on the Project Management Body of Knowledge. Topics address the knowledge areas of the PMBoK across the process groups of a project life cycle: initiating, planning, executing, controlling and monitoring and closure.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have successfully completed ICT327 Management of IT Projects or ICT618 Information Technology Project Management may not enrol in this unit for credit.

### Information Technology Research Dissertation (ICT678)

Credit Points: 12

MURDOCH: S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

To enrol in this unit, students must submit a proposal for approval by the Academic Chair in consultation with an academic advisor. The purpose of the unit is to provide students with the skills, knowledge and experience to conduct research in information technology-related areas. Students will be in regular contact with their academic supervisor. Students submit a literature review, several progress reports and a substantial final formal report for assessment.

Seminars/supervisor meetings: 1 hour per week average.

Prerequisites: Enrolment in Master of Science in Information Technology (Coursework and Dissertation).

Students would normally be in their final year of study and have achieved a GPA of 2.5 out of 4.

### Information Technology Research Methods (ICT615)

Credit Points: 3

MURDOCH: S1-internal

This unit is designed to provide an introduction to research for students in information technology areas. It will focus on the kinds of research questions addressed in ICT research, and introduce students to the broad range of research approaches used in ICT research including: design research, experimental research, survey research, action research and case study research. Students will gain the knowledge and skills needed to critically evaluate studies in the ICT literature.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT650 Information Technology Research Methods may not enrol in this unit for credit.

### Information Technology Strategy (ICT622)

Credit Points: 3

MURDOCH: S1-internal

This unit recognises the highly dynamic nature of IT development and its impact on strategic management. Techniques allowing changes to be understood, modelled and tracked in strategic IT management contexts are introduced. Topics include: IT strategy, strategic planning, strategic alignment maturity, the role of the CIO. IT organisational structure, IT governance, and IT human resource issues including outsourcing, change management and contract management.

Lectures/workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate IT course.

### Innovation and Ethics in Engineering (BEN300)

Credit Points: 3

MURDOCH: S1-internal

This unit extends research skills in engineering developed in the previous unit. To generate value for their employer, professional engineers must be able to conduct research then apply the results to solving problems in an innovative fashion. Given the risks arising from engineering activities professional behaviour must always be shaped by an understanding of the ethical implications. Students will develop skills by preparing project concepts, conducting literature reviews, formulating proposals and a poster presentation.

Lectures: 1 x 2 hours per week; Workshop: 1 x 2 hours per week.

Prerequisites: BEN200 Engineering Research Skills; MAS261/MAS220 Mathematical Methods OR MAS208/MAS221 Mathematical Modelling.

### Innovation and Ethics in Science (BSC304)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Students will learn how to identify where opportunities exist to make a contribution in the area of their science major and how to apply research skills in order to contribute to future innovations. Students will develop skills necessary for creating project concepts, conducting literature reviews, planning and preparing research activity, writing project proposals, formulating and testing hypotheses, conducting risk assessments, and communicating their research findings in written and oral form.

Lectures: 1 x 1 hour per week; Workshops: 1 x 2 hours per week.

Prerequisites: BSC200 Research in the Physical and Life Sciences.

### Instrument and Communication Systems (ENG321)

Credit Points: 3

MURDOCH: S2-internal

This unit provides knowledge of and practical experience deploying industrial instrumentation networks. It considers various types of sensor, their characteristics and how they communicate through analogue and digital media. Topics include: sensor technologies for measuring pressure, flow, load, temperature and level; their integration in distributed control systems; analogue signalling, serial and parallel digital communication; digital networks, addressing and protocols; established industrial field-bus technologies and their applications in the building control, process and transport industries.

Lectures: 1 x 2 hours per week; Workshops: 1 x 2 hours per week; Laboratories: 1 x 4 hours per week.

Prerequisites: ENG207 Principles of Electronic Instrumentation;

ENG294 Discrete Time Systems.

Exclusions: ENG345 Instrument and Communication Systems.

### **Instrumentation and Communication (ENG564)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides a review of industrial communications and instrumentation technologies. Research is targeted towards building upon understanding, knowledge and practices developed from more fundamental studies. Through this unit it is expected that an appreciation of modern instrumentation technologies and systems will be gained.

Meetings/laboratories: by arrangement with the Unit Coordinator.

Prerequisites: Enrolment in Master of Engineering or Graduate Diploma in Engineering.

Students are expected to have experience in at least one programming language and fundamental knowledge of electrical circuits and electronics.

### **Instrumentation and Control I (ENG525)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides the essential material under the broad category of control systems analysis and design. It covers the classical control systems concepts associated with feedback, feedforward, cascade control and computer based control. Emphasis is upon using computer based analysis and simulation packages with reinforcement through a significant laboratory component.

Lecture/Workshop/Laboratory: 1 x 6 hours per week in specialised facility.

Prerequisites: Enrolment in Master of Engineering or Graduate Diploma in Engineering.

Students are expected to have background knowledge in control systems.

### **Instrumentation and Control II (ENG508)**

Credit Points: 3

MURDOCH: S2-internal

The main emphasis of this unit is to build upon previous studies in control by regimenting the student in the application of traditional control practices as well as providing some more sophisticated methods. The unit does this by exploring various instrumentation and control methodologies in the context of a number of industrial problems. It will discuss strategies to design complex interacting systems.

Lecture/Workshop: 1 x 4 hours per week.

Pilot Plant: 1 x 4 hours per week.

Prerequisites: Enrolment in Master of Engineering or Graduate Diploma in Engineering.

Students are expected to have some knowledge and background in Engineering mathematics and control areas.

### **Instrumentation and Control Systems Design (ENG420)**

Credit Points: 4

Not available this year

The unit provides a strong foundation in a number of advanced control topics such as Multivariable Systems, Relative Gain Array

and its use in loop selection, Decoupler Design, Model Predictive Control, and HAZOP. The control techniques will be designed then implemented into an industrial Pilot Plant as well as a complex simulation case study and finally their performances are compared using different control performance measures.

Lectures and workshops: 1 x 4 hours per week; laboratories: to be organised between the student and the Unit Coordinator.

Prerequisites: ENG304 Control Engineering I; ENG346 Control Engineering II; ENG303 Advanced Process Engineering or EXM224 Principles of Unit Operations.

### **Instrumentation and Control Systems Design (ENG445)**

Credit Points: 3

MURDOCH: S1-internal

Lectures/workshops: 1 x 4 hours per week.

### **Insurance Law (LLB319)**

Credit Points: 3

Not available this year

An understanding of insurance law is important for both commercial and litigation lawyers. Most major commercial litigation involves at least one insurer. Commercial contracts often have insurance ramifications. In this unit students will gain an understanding of the special qualities of an insurance contract both at common law and pursuant to the Insurance Contracts Act 1984 (C'th). If time permits, marine insurance will also be covered.

Lectures: 2 hours per week.

Prerequisites: Successful completion of all Part 1 units in the LLB, LAW260/LLB260 Contract

Exclusions: Students who have successfully completed LAW319 Insurance Law may not enrol in this unit for credit.

### **Integrated Clinical Studies 1 (EQU041)**

MURDOCH: S1-internal

This unit facilitates the integration and understanding of Small Animal Surgery, Avian, Exotic Pet and Wildlife Practice, Equine Practice, and Reproduction and Obstetrics.

Tutorials/workshops: 2 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

### **Integrated Clinical Studies 2 (EQU042)**

MURDOCH: S2-internal

This unit facilitates the integration and understanding of Small Animal Medicine, Cattle and Camelid Medicine, Production and Surgery, Small Ruminant Medicine and Production, and Intensive Industries Medicine and Production.

Tutorials/workshops: 2 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

**Integrated Clinical Studies 3 (EQUo43)**

MURDOCH: S1-internal

This unit facilitates the integration and application of Clinical Rotations and Professional Practice Management.

Tutorials/workshops: 2 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

**Integrated Clinical Studies 4 (EQUo44)**

MURDOCH: S2-internal

This unit facilitates the integration and application of Clinical Rotations, Professional Practice Management, and Special Assignments.

Tutorials/workshops: 2 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program.

**Integrated Curriculum in Primary Schools (HASS/HPE/Arts) (EDN613)**

Credit Points: 3

MURDOCH: ST2-internal, ST2-external

This unit develops students' knowledge, skills and application in primary curriculum and pedagogy that connects with the lives of children and their communities. The unit examines ways of generating knowledge with children drawing on a range of resources from the curriculum fields of Humanities and Social Sciences, the Arts, and Health and Physical Education. Students will plan, implement and assess an integrated unit of work.

Lectures/workshops: 2 hours per week over 9 weeks.

School-based learning experiences drawn from EDN5501

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of EDN5501 Transition to Teaching and EDN561 Learners and Learning Environments.

**Integrated Early Childhood Curriculum (EDN354)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit builds on EDN320/EDN3201/EDU322/3221/EDN355 Principles and Practices in Early Childhood Education and explores curriculum implications for the pre and early primary years. It addresses integrated curriculum planning for children aged 3 to 8 years and continues to develop the links between theory and practice in early childhood education introduced in EDN320/EDN3201/EDN355 Principles and Practices in Early Childhood Education.

Lectures: 11 x 1 hour; workshops: 11 x 2 hours

Students will complete five distributed days (6-7 hours per day) working with children aged 4-5 years in an Australian Long Day-care Centre or early childhood education classroom.

Prerequisites: EDN355/EDN320/EDN3201 Principles and Practices in Early Childhood Education. Students must also have successfully completed EDU101/EDU1011 Introduction to Teaching OR EDN111 Language for Learning and Teaching and BED150/EDN112/EDN1121 Understanding Teachers' Work.

Exclusions: Students who have successfully completed EDU323/EDN322 Integrated Early Childhood Curriculum may not enrol in this unit for credit.

**Integrated Early Childhood Curriculum for Educators (EDN522)**

Credit Points: 3

MURDOCH: S2-external

This unit builds on EDN520 Advanced Principles and Practices in Early Childhood Education and explores curriculum for the pre and early primary years. It addresses integrated curriculum planning, programming, assessment and documentation for children from birth to 5 years with specific reference to the Australian National Curriculum and the Early Years Learning Framework. This unit continues to develop the links between theory and practice for teachers wishing to make early childhood their specialisation.

nil.

Prerequisites: Enrolment in the Graduate Diploma in Early Childhood Care and Education OR Graduate Certificate in Early Childhood Education OR Master of Education (Coursework); Successful completion of EDN520 Advanced Principles and Practices in Early Childhood Education.

**Integrated Marketing Communications (BUS302)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

The learning objectives of this unit are premised on developing a practical understanding of marketing communication processes. Students will critically examine differences among various elements of the promotion mix (i.e. advertising, sales promotion, direct marketing, technology based marketing, sponsorships and public relations) to develop appropriate marketing communication strategies across myriad marketing environments.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS273/ BUS299 Consumer Behaviour

Exclusions: Students who have successfully completed BUS336 Integrated Marketing Communications may not enrol in this unit for credit.

**Integrated Marketing Communications (BUS336)****As for BUS302 except:**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

Lectures/workshops: 3 hours per week.

Prerequisites: BUS273/ BUS299 Consumer Behaviour

Exclusions: Students who have successfully completed BUS302 Integrated Marketing Communications may not enrol in this unit for credit.

**Intelligent Systems (ICT319)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

Offers an introduction to the fundamental concepts and techniques of artificial intelligence focusing on expert systems to solve engineering problems, data mining, data analysis for industries and intelligent agents in computer games. Topics include: introduction to artificial intelligence and applications; introduction to game AI; rule based expert systems; neural computing; fuzzy logic; genetic algorithms, intelligent agents, state machines and methods of evaluating these technologies.



Lectures: 1 x 2 hours per week (theory and practice); computer laboratories: 1 x 2 hours per week (1 hour supervised) (practice).

Prerequisites: ICT167 Principles of Computer Science OR ICT104 Principles of Computer Science.

Exclusions: ICT219 Intelligent Systems.

### **Intelligent Systems Applications (ICT619)**

Credit Points: 3

MURDOCH: S1-internal

An overview of the application and associated theories of Artificial Intelligence (AI), Soft Computing, and techniques used in developing intelligent systems. Emphasis is on business, management, social, science and engineering problems. Upon completion students should be able to evaluate intelligent systems and manage the application of various tools available for developing such systems. Topics included are: rule-based systems, artificial neural networks, fuzzy systems, genetic algorithms, data mining, case-based reasoning, intelligent agents and optimisation techniques.

Lectures/workshops: 3 hours per week.

During the weekly workshop sessions, demonstration of the use of tools and discussions on problem in solving specific applications will be carried out.

Prerequisites: Enrolment in a graduate-level IT course.

### **Intensive Industries Medicine and Production (VET451)**

Credit Points: 2

MURDOCH: YM-internal

The course covers the diagnosis, treatment, prevention and control of diseases of intensively farmed species with emphasis on pigs and poultry. Particular emphasis is placed on the prevention of disease and correction of management and nutritional factors affecting production. The general principles involved in the investigation of herd and flock problems and formulation of herd and flock health and production programs is emphasised.

Lectures: 24 hours; practicals: 12 hours.

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice.

### **International Aid and Development in Practice (SUS309)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This capstone unit provides a valuable opportunity to apply and build international aid and development skills, knowledge and networks. Students are encouraged to work with government agencies, industry or NGOs on projects relevant to international aid and development, while drawing on the support of academic supervisors. While suggestions for project topics and partner organisations are provided, the onus is on students to organise projects that match their interests. Aim: to build the capacities needed for a career as a development practitioner.

This unit involves independent guided project work with a supervisor/mentor. It does not involve timetabled activities.

Prerequisites: Enrolment in the BA International Aid and Development and completion of a minimum of 48 points

### **International and Transnational Crimes (CRM219)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines a range of international and transnational crimes and how the international community polices and adjudicates these crimes. Major crimes such as human trafficking, crimes against humanity and various forms of smuggling are considered.

Lectures: 2 hours per week.

Prerequisites: LEG100 Law, Justice and Society

### **International Arbitration Law (LLB306)**

Credit Points: 3

MURDOCH: S1B-internal

The course provides a thorough introduction to the field of international arbitration, which has become the most important tool of settling international commercial disputes. The course is designed for prospective corporate attorneys as well as litigators. It gives an insight on international commercial arbitration as an instrument to settle disputes between business entities, particularly on arbitration under the auspices of the International Chamber of Commerce (ICC). It takes a comparative approach to explain the influence of national law on international arbitration.

Lectures: 24 hours over 1 week (from 6th -10th February)

Prerequisites: Successful completion of all Part 1 units in the LLB.

### **International Business Negotiations (MBS636)**

Credit Points: 3

Not available this year

This unit analyses the nature of negotiation, examines negotiating strategies, tactics, processes and considers impacts of emotion on the negotiating process. This unit is aimed at equipping managers with the tools necessary to enable them to effectively participate and engage in cross-cultural negotiations.

Lectures/seminars: 3 hours per week.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have enrolled in MBS699 Special Topics in International Business: Negotiations may not enrol in this unit for credit.

### **International Education: Issues and Practices (EDN519)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

DUBAI-ISC: TMD-internal, TSD-internal

This unit introduces historical and contemporary issues and practices related to international education, schools, teachers and students. A range of international curricular are examined, particularly the International Baccalaureate suite of Programs (PYP, MYP, DP). The unit includes field and virtual experience in IB schools (for non-IB teachers). A digital Portfolio of Learning will be developed against the IB Standards and Practices. The approach to learning is based on inquiry and reflection.

5 day on campus intensive at the Murdoch campus

Field experience in an International Baccalaureate school.

Prerequisites: Enrolment in either the Master of Education (Coursework), the Master of Asian Studies, the GradDipEd (Tertiary and Workplace) or the Grad Cert in Education (International Education).

Exclusions: Students who have successfully completed EDU613 / EDN513 International Education: Issues and Practices in Schools cannot enrol in this unit for credit

### **International Finance (BUS322)**

**As for BUS330 except:**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS244/BUS288 Treasury Management.

Exclusions: Students who have successfully completed BUS322 International Finance may not enrol in this unit for credit.

### **International Finance (BUS330)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

The topics in this unit include - foreign exchange markets, futures, options, forward markets and currency swaps, determination of exchange rates, purchasing power parity, interest rate parity, hedging and the management of foreign exchange risk, asset and liability management for the multinational corporation, international portfolio investment.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS244/BUS288 Treasury Management

Exclusions: Students who have completed BUS322 International Finance may not enrol in this unit for credit.

### **International Financial Markets and Institutions (BUS390)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit provides a comprehensive analysis of the global financial system, with particular focus on the financial markets of Australia, China and the U.S. The unit also analyses current theories, issues and institutions relevant to the global trading system. The dominant theme of this Unit is the interdependence of the trading and financial systems in an increasingly globalised market.

Workshops: 2 hours per teaching week for South Street campus

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS161 Introduction to Economics or BUS171 Foundations of Economics

Exclusions: Students who have successfully completed BUS290 International Financial Markets and Institutions may not enrol in this unit for credit.

### **International Human Rights Organisations (LLB376)**

Credit Points: 3

GENEVA: S2G-internal

Focuses on the nature, origins, and operations of international human rights organisations framework, including looking at the United Nations, associated organisations and NGOs. Topics covered include treaties, mechanisms and the application of standards relating to international human rights law. Students will also learn how these organisations operate in practical terms, their role in

promoting and enforcing human rights, and their practical strengths and limitations.

Seminars/lectures: 24 hours taught intensively in the winter break in Geneva.

Prerequisites: Successful completion of all Part 1 units in the LLB; LAW259/LLB259 Constitutional Law, and successful completion/concurrent enrolment in LLB358/LAW258 Australian Administrative Law

Exclusions: Students who have successfully completed LAW376 International Human Rights Organisations may not enrol in this unit.

The S2G enrolment option for this unit is offered as part of the International Human Rights Law Program in Geneva, Switzerland. Enrolment in this program is by application. Students enrolling in the program are responsible for their own airfares, accommodation and incidental expenses during the program. Contact the School of Law for further information.

### **International Immersion (MBS638)**

Credit Points: 3

Not available this year

In this module, participants will have a tremendous opportunity to gather first hand insights of the economic, social, cultural and political trends which international organisations navigate. Participants will analyse issues relating to organisational and individual leadership, strategies implemented for international industry positioning such as Islamic Finance, Responsible and Innovation Management, and witness emerging innovations coming from these centres of excellence. Participants will experience a cultural exchange, building on professional relationships with their cohort, international industries, organisations and government executives.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **International Law (LLM601)**

Credit Points: 3

MURDOCH: S1-internal

This unit deals with the fundamentals of public international law as the legal basis of international relations, aiming to provide students with a working knowledge and understanding of the fundamental principles on which this area of law rests. Topics include the history of public international law, its sources, the subjects of international law, concepts such as legal personality and sovereignty, the relationship between international and domestic law, the peaceful settlement of disputes and the use of force in international law.

Five blocks of 5 hours of seminar type lectures

Prerequisites: Enrolment in a graduate-level course.

### **International Management (BUS323)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit aims to provide a framework for the analysis of problems and issues in managing an international business. The focus is on contemporary worldwide issues of competitiveness and how these are influenced by the cultural, political and economic environments. Topics: cross-cultural management issues; international strategic planning; international organisational structures; cross-cultural communication, decision-making, motivation and leadership; expatriation and repatriation of

managers; and international human resource management and labour relations.

Lectures: 2 hours per week; seminar: 1 hour per week.

Prerequisites: BUS240 Organisation and Management Development or BUS223 Organisational Theory and Behaviour or BUS293 Organisational Theory and Behaviour or BUS298 Organisation Development and Change or BUS297 Principles of Human Resources Management.

### **International Management (BUS344)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit aims to provide a framework for the analysis of problems and issues in managing an international business. The focus is on contemporary worldwide issues of competitiveness and how these are influenced by the cultural, political and economic environments. Topics: cross-cultural management issues; international strategic planning; international organisational structures; cross-cultural communication, decision-making, motivation and leadership; expatriation and repatriation of managers; and international human resource management and labour relations.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS223/BUS293 Organisational Theory and Behaviour

Exclusions: Students who have successfully completed BUS323 International Management may not enrol in this unit for credit.

### **International Marketing (BUS343)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

International Marketing is necessary for firms wishing to participate in the global economy. The unit will focus on key elements that a firm must assess when planning to commence or continue marketing its product overseas. Students will cover everyday issues associated with international marketing, particularly where they differ from domestic marketing. The basic approach and principles build on the information in prior units of study.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: Successful completion of BUS273/BUS299 Consumer Behaviour OR successful completion of both POL161 Understanding International Politics and BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS321 International Marketing may not enrol in this unit for credit.

### **International Marketing Management (MBS573)**

Credit Points: 3

MURDOCH: AU2-internal

Internationalisation and the rapid globalisation of existing and new markets present unique opportunities for expansion strategies with operations in markets previously unthinkable and impossible to penetrate. However, globalisation poses competitive challenges and external risks. Marketing management in a global environment is more challenging than marketing in a domestic/home country market. Using case studies, the unit will explore a range of topics

including theoretical perspectives on planning a global strategy, identifying market segments, competitor analysis, marketing mix, and evaluation.

The main mode of learning is facilitated through combined lectures/seminars for 4 weeks, two Saturday workshops and 2 recorded seminar sessions.

Self-directed and guided research regarding international marketing management learning will be expected to augment learning.

Prerequisites: Nil.

### **International Political Economy (POL298)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit is an introduction to the subject of international political economy. It reviews key conceptual approaches to the politics of the world economy; examines key processes of economic globalisation (trade, finance, multinational corporations); and considers debates and controversies over development pathways, globalisation and the rise of new economic powers. Students will develop an understanding of the politics of the global economy, and gain the skills to engage with major contemporary international economic and policy challenges.

South Street Murdoch: Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Kaplan SGP: Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have completed POL299 International Political Economy may not enrol in this unit for credit.

### **International Sale of Goods (LLB302)**

Credit Points: 3

MURDOCH: T3-internal

The objective of the course is to enable participants to acquire knowledge and understanding of Cross-Border Business Law and to discuss and assess critically the legal and policy issues arising therefrom. Participants may expect to gain a deeper understanding of the nature of contract law, basic knowledge of the major legal traditions and the ability to master a wide range of strongly heterogeneous sources - all of which are competences and skills of increasing importance in the modern world.

Run intensively in week 2 of Trimester 3 - 24 hours of face to face teaching

Prerequisites: LLB260 Contract Law

### **International Security Studies (POL345)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit defines international security broadly to incorporate political, societal, military, environmental, economic and technological factors. After examining the competing theories of international politics and different conceptions of security, the focus shifts to the post-Cold War international system and especially the roles of the United Nations and international law in international security. It utilises case studies from various regions to explain the changing dimensions of security.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Enrolment in Security, Terrorism and Counterterrorism major and completion of a minimum of 48 points. Students enrolled in other majors must have completed at least 6

points of POL units and a minimum of 48 points.

Exclusions: Students who have completed POL291 International Security Studies may not enrol in this unit for credit.

### International Trade and Development (BUS309)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

This unit provides a theoretical and policy analysis of an economic phenomenon that injects lifeblood into almost all modern economies. Trade both in its domestic and international dimension with their respective related issues is the single most important topic that is being deliberated and argued about practically in every global forum. Trade is also closely linked with economic growth and economic development.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS260 Macroeconomics A or BUS289 Macroeconomics A AND BUS261 Microeconomics A or BUS291 Microeconomics A.

### International Trade Law (LLB311)

Credit Points: 3

IMACERATA: S2G-internal (quota of 35 places)

Considers contemporary policies and legal issues in international trade regulation. Examines the concept of free trade and the international structures that foster the liberalisation of international trade.

Lectures: 24 hours taught intensively in the winter break (in Macerata).

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB259/LAW259 Constitutional Law.

Exclusions: Student who have successfully completed LAW311 International Trade Law may not enrol in this unit for credit

This unit is subject to quota. Quota is due to limited resources. Preference may be given to students in Law in their final year.

### Internship (SHP648)

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit enables students to undertake an industry based internship project over one semester in the areas of health management, quality, risk, clinical or corporate governance in a health or aged care service. The internship project will be organised to suit a student's location, available hours and will be conducted under the supervision of the lecturer and nominated preceptor. Students will benefit through working with experienced health professionals and being responsible for the design implementation or evaluation of a project.

A workplace-based placement will be negotiated by the student in consultation with the lecturer. The placement will be conducted over an equivalent of 2 days per week for the 14 teaching weeks of the semester.

Prerequisites: NUR632 Applied Health Research Methods: From Research to Practice, or equivalent research methodologies unit.

Exclusions: Students who have successfully completed NUR648 Internship may not enrol in this unit for credit.

### Internship Professional Placement (SWM6191)

Credit Points: 6

MURDOCH: S2-internal

Students undertaking an internship of 12 weeks full-time/500 hours (or equivalent) need to enrol in this unit concurrently with SWM619 Research Internship. In undertaking this unit, students will be able to apply and development their knowledge in a specific professional/workplace setting; develop and demonstrate appropriate professional behaviours, including teamwork, reflective practice; ethical conduct; appropriate responsibility and accountability; and communication skills.

NA

NA

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of International Affairs and Security, Master of International Affairs, Master of Health Policy and Leadership or Master of Health Administration, Policy and Leadership; completion of at least 24 credit points; concurrent enrolment in SWM619 Research Internship.

Exclusions: Students who have successfully completed SSH619 Research Internship may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

### Internships (WIL) (LLB301)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

In this unit, students can find their own internship placement throughout the year and then seek approval for enrolment from the unit coordinator. On occasion the Law School promotes internship opportunities. Internships must be unpaid and run for a maximum of 130 office hours. Work pattern and work tasks are negotiated between the intern and employer and approved by the unit coordinator. Students will acquire practical legal skills as well as other skills such as communication, problem solving and teamwork

This unit will consist of up to 130 hours of placement, and approximately 20 hours self-directed study.

Prerequisites: Part I LLB core units plus BJU200 Researching Legal Remedies or BJU200 Research Methods for Law.

A result of Ungraded Pass or Fail is awarded for this unit.

### Introduction to 3D Graphics and Animation (ICT101)

Credit Points: 3

Not available this year

This unit introduces the fundamentals of computer graphics, animation, audio and video, which is essential for multimedia and digital content development such as computer and video games. Tools and techniques used for the creation, manipulation and transformation of visual and audio information are also introduced. Topics include: understanding of bitmap and vector graphics; processing computer graphics; 2D and 3D geometry; nature of 3D graphics; use of vectors and matrices in graphics; geometric manipulation of 3D graphics; shading; animation; audio; video.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour supervised and 1 hour unsupervised).

Tutorials/labs complement the lectures in the form of hands-on experience using one of the available industry standard software tools. Besides attending lectures and tutorials/labs, students will also have access to the LMS to assist them in their learning process. As

this is a 3 credit point unit, it is expected that students will spend on average 10.0 hours per week for the total 15 weeks of this teaching period working on this unit.

Prerequisites: Nil.

### **Introduction to Accounting (BUS160)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit provides an introduction and broad overview of fundamental financial and management accounting concepts. The unit is suitable for anyone undertaking a commerce degree as it introduces students to concepts and practices necessary for a basic understanding of business reports. The topics addressed in financial accounting include the accounting equation, cash vs accrual accounting, Australian Accounting Standards, and financial statement analysis. Management accounting topics include an introduction to budgeting, CVP analysis and cost behaviour.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have completed BUS170 Foundations of Accounting may not enrol in this units for credit

### **Introduction to Audio Production (SOU101)**

Credit Points: 3

MURDOCH: S2-internal

This is a content creation-focused unit that introduces the principles of analogue audio which relate to all types of audio production. Digital audio theory and newer audio technologies such as MIDI, digital audio workstations and virtual instruments are also introduced. Audio technologies offering less traditional types of composition strategies and manipulation are also explored. The unit is set against the background of an emerging research area centred on what it means to be a digital musician or audio producer.

Lectures: 1 hour; workshops: 1.5 hours.

This unit enhances the learning experiences by introducing tablet-based audio technology, as a consequence the metaphor of the computer as a tool is emphasised. Outcomes centre around creative use rather than learning how to operate software suites.

Prerequisites: Nil.

### **Introduction to Australian Indigenous Studies (AIS180)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Australian Indigenous Studies is a dynamic intercultural and interdisciplinary field of inquiry. This unit introduces students to the discipline of Indigenous Studies, critically examining its key concepts and political and theoretical priorities. In so doing, the unit also introduces students to some of the areas of specialisation in Indigenous Studies at Murdoch. Finally, the unit considers current debates and their impact on the discipline's future, thus preparing students for further studies in this field.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Introduction to Catholic Education (EDN231)**

Credit Points: 3

Not available this year

This unit is designed for students considering teaching in Catholic schools in Western Australia. The unit aims to help students understand what is distinctive about Catholic schools, what is needed for these schools to be effective places of learning, and the importance of the teacher within the Catholic school.

Lecture/workshops: 8 x 4 hour daily over two weeks in early January, with a study-break on the Wednesday of each week.

Prerequisites: Nil.

This is one of three Catholic Studies Units currently offered at Murdoch University that assist Education students meet the tertiary study requirements of accreditation to teach in a Catholic school.

### **Introduction to Chemical Concepts (CHE145)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides principles of physical, inorganic and organic chemistry that are required for further studies in the chemical and related sciences. Topics covered include electronic structure, molecular orbitals and reactivity, principles of spectroscopy, physicochemical properties of solids, liquids and gases, trends in properties of inorganic compounds, Lewis acids and bases, nomenclature, isomerism and basic reactions of coordination compounds, redox reactions and electrochemistry, and fundamentals of organic reaction mechanisms. These concepts are supported by practical exercises in the laboratory.

Lectures: 3 x 1 hour per week; laboratories: 1 x 3 hours per week; tutorials: 1 hour per week.

External students: Compulsory attendance at a 5 day on-campus laboratory session.

For external students there s compulsory attendance at a 5 day on-campus laboratory session.

Prerequisites: CHE144 Foundations of Chemistry (may be studied concurrently).

### **Introduction to Chiropractic (CHI109)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit provides the initial step towards becoming a member of the chiropractic profession. From a sociological perspective it examines the history of the professions in general and that of chiropractic specifically. It introduces skills, knowledge, and attitudes including the core professional virtues of trustworthiness and altruism. It examines the profession's past and present interface with society, particularly the doctor/patient relationship. Practical sessions build psychomotor skills in palpation by exploring surface anatomy and developing basic massage techniques.

Lectures/Online learning: 1 hour per week; Tutorial/Workshops: 1 hour per week; Practical Laboratories: 2 hours per week.

Prerequisites: Nil.

In the recommended pathway of study for the BSc Chiropractic, CHI109 is an S2 unit. The S1 offering is to meet the needs of students who have been granted Advanced Standing for Semester 1 units, or students who are NOT enrolled in the Chiropractic Science degree and are choosing the unit as a general elective. Students enrolled in the BSc Chiropractic need to seek the approval from the Academic Chair (Chiropractic, years 1-3) to enrol. It is highly recommended that CHI168 Introduction to Musculoskeletal Human Anatomy or equivalent be completed prior to enrolling in CHI109.

This unit will only be run in S1 if there is sufficient demand.

### **Introduction to Clinical Practice (VET331)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an introduction to clinical practice and therefore prepares the veterinary student to be able to safely and actively participate in clinical placements across all major domestic species. The topics covered in this unit include pharmacology, radiography (including radiation safety) and introductions to clinical practice in the major veterinary species.

Lectures: 3 x 1 hours per week; Practical classes: 1 x 3 hours per week.

Prerequisites: ANS101 (Introduction to Livestock Science), VET273 (Veterinary Animal Function and Structure III), VET274 (Veterinary Animal Function and Structure IV), VET211 (Principles of Infectious Diseases I), VET278 (Principles of Infectious Diseases II).

Dose Calculation Test = a one-off test that occurs during a lecture slot.

Intra-semester Radiography Test = a one-off test that occurs during a practical session.

The mastery of calculating drug doses is developed by the students using practice questions and answers provided to them at the beginning of semester. This skill is assessed and if necessary, a student may need to repeat this assessment to achieve the minimum pass mark, which is 90%. Opportunities for ad hoc tutorials are provided to students who are not meeting the minimum requirements for this skill.

### **Introduction to Clinical Studies (EQU036)**

Not available this year

This unit extends and consolidates students' discipline specific skills and understanding of VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice and VET459 Surgical Secrets.

Tutorials: 8 hours per week.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Wardong program, and are in the third year of the veterinary course.

### **Introduction to Communication (CMS100)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

CMS100 is a foundational unit in Communication and Media Studies. It introduces students to the fundamental principles of communication. The unit covers perception and identity in communication, as well as the fields of mass communication, communication in the social media, professional, intercultural, interpersonal, and group communication. It also familiarises students with the main approaches and key concepts of Communication Studies. In addition, the unit contains practical communication skills.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Introduction to Community Development (COD125)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces students to community development ideas and practice, with particular reference to its application in the Australian context. It will examine the emergence of the concept of community development and its meanings across diverse areas of practice. To this end students will be expected to become familiar with, and aware of the limitations of key methodologies in community development. They will also be introduced to examples of community development.

Lectures/workshops: 12 x 2 hour lectures, 12 x 1 hour tutorials.

Written Assignments, reading, viewing of practice examples and reflection on community development practice.

Prerequisites: Nil.

### **Introduction to Computer Science (ICT102)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit introduces key aspects of computer science including data storage and manipulation, and problem solving using a high-level programming language. Topics: the components of a modern computer system; fundamental concepts of data storage; function of operating systems; algorithms and problem solving; fundamental aspects of a programming language including data types, input/output, simple selection and iteration control structures, procedural and data abstraction, one-dimensional arrays and strings.

Lectures: 2 hours per week; tutorials: 3 hours per week (1 hour unsupervised).

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENG108 Engineering Computing I may not enrol in this unit for credit.

### **Introduction to Creative Arts Therapies in Counselling (CSL576)**

Credit Points: 3

MURDOCH: S2-internal

Creative Arts Therapies provide a context for the intentional use of arts processes for therapeutic goals; allow non-verbal experience to be expressed in a counselling context; and facilitate the exploration of connections between clients' internal experience and its expression.

Workshops: Nine 3.5 hour workshops, One 4.5 hour workshop.

Prerequisites: Must be enrolled in the Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies, or Master of Counselling. Other students wanting to study this unit can be interviewed by the Counselling Academic Chair.

### **Introduction to Criminology (CRM100)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides an overview and introduction to the study of criminology from a multi-disciplinary perspective. Students will examine the history of punishment and critically examine our current solutions to crime in light of theories of criminal behaviour. The unit explores the topic of crime and minority groups as well as the impact on victims. Students will be presented with a broad introduction designed to provide them with the academic skills necessary to succeed in their future criminology studies.

Lectures: 1 hour per week; tutorials: 1 hour per week. Tutorials commencing week 2

Prerequisites: Nil.

Exclusions: Students who have successfully completed CRM206 / LAW206 Criminology, CRM304 / LAW304 Criminology may not enrol in this unit for credit.

### **Introduction to Cultural Psychology (PSY101)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit demonstrates the interdependent nature of human psychology and culture; how psychological processes and human behaviour are influenced by culture, and how culture is influenced by individuals and groups. It examines the relationship between culture and many of the topics that will be studied in future units such as developmental processes, cognition, personality and psychological disorders. The unit also introduces students to social psychological principles around group norms, stereotyping, and interactions within and between groups.

Lectures: 12 x 1.5 hours; Tutorials: 6 x 2 hours per teaching period; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed PSY246 Psychology: Culture and Community may not enrol in this unit for credit.

### **Introduction to Data Communications (ICT103)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit aims to provide an understanding of the basic principles of data communications, the technological infrastructure underlying networks and their role in information technology. The networking architectures of TCP/IP and OSI are studied as an introduction to the theory of networking. Extensive practical exercises using internetworking devices such as switches and routers, provide the student with LAN design and implementation skills. This unit, in conjunction with Principles of Data Communications, delivers the Cisco CCNA Certification curriculum.

Lectures: 2 hours per week; tutorials: 2 hours per week (1 hour unsupervised).

Prerequisites: Nil.

Exclusions: ICT169 Foundations of Data Communications.

### **Introduction to Digital Media Skills (IDD129)**

Credit Points: 3

MURDOCH: S1-internal

DUBAI-ISC: TJD-internal, TSD-internal

KAPLAN-SGP: TSA-internal

This unit introduces fundamental digital media production concepts and processes, providing students with basic skills in designing, capturing, editing and publishing a range of media for the web. It also explores the theoretical consequences of digital production processes providing students with an understanding of the methods and issues of digital communication, including distribution and content management.

Lectures: 10 x 1 hour; laboratories: 11 x 2 hours. (Perth and Dubai)  
Workshops: 24 hours contact time plus online content. (KAPLAN)

Prerequisites: Nil.

Exclusions: Students who have successfully completed

MUL101/MCC129 Introduction to Digital Media or MCC129

Introduction to Digital Design may not enrol in this unit for credit.

### **Introduction to Economics (BUS161)**

Credit Points: 3

DUBAI-ISC: TMD-internal

Economics is a study of how societies can best use and distribute the world's scarce resources to meet human needs and wants. This unit provides a valuable foundation of how economies operate, how businesses and individuals use economics in their decision making, and why governments implement certain economic policies. These include policies on employment, inflation, the environment, interest rates and the welfare of society. The unit also covers international issues including international trade, foreign debt and the global economy.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have completed BUS171 Foundations of Economics may not enrol in this units for credit

### **Introduction to Energy Studies (PEN190)**

Credit Points: 3

Not available this year

An introduction to the field of energy studies. Investigate and debate how we currently produce and use energy in our society and some of the economic, technical, social and environmental issues this raises. A different topical energy-related issue is introduced each week, discussing it from different points of view as represented by community, industry and academic leaders who are actively engaged in addressing the issue. Topics include oil depletion, global warming, wind power, sustainable transport and the hydrogen economy.

Lectures/tutorials: 3 hours per week (internal students only).

Prerequisites: Nil.

Exclusions: Students who have successfully completed PEC190 Introduction to Energy Studies may not enrol in this unit for credit.

### **Introduction to Forensic Science (CHE103)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides a broad introduction to forensic science and emphasises the multidisciplinary nature of forensics. The scientific disciplines that may be applied to solving crime are introduced and explored using case studies and examples. Forensic science professionals present guest lectures to provide students with a 'real world' perspective. The unit material is presented in lectures/workshops and weekly reading. Participation in online discussion groups is utilised to provide students with opportunities for active and cooperative learning.

Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed PEC235 Forensic Science or PEC435 Introduction to Forensic Science or PEC103 Introduction to Forensic Science may not enrol in this unit for credit.

**Introduction to Games Art and Design (GAD154)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces fundamental games art and design production concepts and processes, providing students with basic knowledge in concept art, game engine evaluation, game play, storyboarding, and basic workflow standards. Students are also introduced to games as a wider cultural and philosophical phenomena.

Online lecture; media laboratories: 3 hours per week

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC154 Introduction to Games Art and Design may not enrol in this unit for credit.

**Introduction to Graphic Design (IDD118)**

Credit Points: 3

MURDOCH: S2-internal

This unit explores visual communication as it relates to the processes, techniques, and creative possibilities of digital and graphic design production. Throughout the unit students develop a thorough and culturally informed understanding of critical graphic design and new media history and theory. Students will also develop practical design skills through the rigorous development of numerous graphic design projects.

Online lecture; media laboratories: 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MUL118 Principles of Multimedia or MCC118 Visual Communication or IDD118 Visual Communication may not enrol in this unit for credit.

**Introduction to Health Education (EDN117)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to the health component of the Health and Physical Education learning area. Current health, issues and learning needs of students (K-10) are explored with an emphasis on the role that health education plays in promoting lifelong healthy and active living. The concept of the health promoting school will be emphasised, along with interactive learning activities for pre-service teachers to be able to apply the curriculum in a relevant, engaging and developmentally appropriate manner.

Lectures: 1 hour per week, tutorials: 2 hours per week.

Prerequisites: Nil.

**Introduction to History (HIS181)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces students to the historian's craft and the nature of historical knowledge. Through discussions and readings, you will gain an appreciation of the historian's role in society and the discipline's conventions. At the same time, historical case studies will be used to hone your skills in analysis, interpreting sources and constructing evidence-based arguments.

Lectures: 1 hour per week; tutorials: 1 hour per week.

Prerequisites: Nil.

**Introduction to ICT Research Methods (BSC203)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TSA-internal

This unit provides an introduction to research in the information and communications technology (ICT) discipline. It explores the kinds of research questions addressed in ICT research, and provides an opportunity for students to understand the broad range of research approaches used in ICT research including: design research, experimental research, survey research, action research and case study research. Students will develop both research and project management skills and gain the knowledge and skills needed to critically evaluate the ICT research literature.

Lectures: 1 hour per week; tutorials: 1 x 2 hours per week.

Prerequisites: BSC100 Building Blocks for Science and enrolment in one of the following Information technology majors: Computer Science or Business Information Systems or Cyber Forensics and Information Security or Games Software Design and Production, or Games Technology or Internetworking and Network Security or Mobile and Web Application Development.

Exclusions: Students who have successfully completed BSC201 Psychology: Measurement, Design and Analysis or BSC206 Introduction to Research Methodology and Evidence Based Practice or BSC200 Research in the Physical and Life Sciences may not enrol in this unit for credit.

**Introduction to Indigenous Popular Culture (AIS110)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Many people readily associate Indigenous culture with dot paintings and traditional dance. While acknowledging the importance of more traditional forms of cultural expression, this unit familiarises students with a broader range of contemporary Indigenous cultural products. In the process, students gain an appreciation of the highly varied, dynamic and exciting ways in which Indigenous cultures and identities are articulated.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed the following units may not enrol in this unit for credit: AIS174 Contemporary Indigenous Cultural Expression; AIS302 Black Music; AIS215 Aboriginality in Australian Film and Television; AIS210 Indigenous Popular Culture.

**Introduction to Information Systems (ICT158)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides a broad introductory understanding of information systems, viewed from organisational and societal contexts, and provides students with a balance of technical and organisational perspectives to serve as the basis for further study in the discipline. It introduces business environments and explores how technology is integrated into business, government and community systems. It also provides an introduction to decision making and systems theory, and considers the role of IT professionals in solving organisational problems.

Lectures: 1 x 2 hours per week; computer laboratories: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ICT107



Principles of Information Systems may not take this unit for credit.

### **Introduction to Information Technology (ICT105)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides an introduction to computer and information technologies. Topics may include computer hardware, software; communications technologies; human-computer interaction; web and mobile applications; information systems; 3D graphics and animation; and the impact of information technology on organisations and society. The theory will be complemented by practical work in productivity software, web development, mobile app development, and 3D modelling and animation.

Lectures: 2 hours per week.

Laboratories: 1 hour per week (supervised) and 1 hour per week (unsupervised).

Prerequisites: Nil.

Each student is expected to read the lecture notes and any recommended materials relevant to the topic each week. Students will also need to spend some time completing the lab exercises for that week. In addition each student needs to complete two assignments and sit the final examination.

### **Introduction to Internet and Mobile Technologies (ICT108)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TMD-internal

Introduces the fundamentals of the Internet, interactive web applications, mobile applications and the basics of digital content development for Internet and mobile applications. Tools and techniques used for developing Internet and mobile applications are introduced. Topics include: overview of Internet and mobile technology; overview of digital content; HTML and XHTML; CSS; web authoring tools; interactive web application; Javascript; mobile application development; and tools for cross-platform mobile development.

Lectures: 2 hours per week; laboratory: 2 hours per week (1 hour unsupervised).

Prerequisites: Nil.

Each student is expected to read the lecture notes and any recommended materials relevant to the topic each week. Students will also need to spend some time doing the lab exercises for that week. In addition each student needs to complete one assignment, a project and sit the final examination.

### **Introduction to Journalism (MCC104)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit discusses the professional role of journalists and introduces students to the skills of news gathering and reporting. Students will also be introduced to a range of issues that have a bearing on the professional practice of journalism, including media law, ethics and the culture of news.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Introduction to Legal Practice (LLB308)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit introduces students to legal practice and develops the skills needed for it. Through the use of exercises, simulations and case studies it will build students' knowledge and skills to enable them to be ready for the transition from law school to legal practice. This unit prepares students for one of Murdoch's acclaimed legal clinics, giving students real life experience and helping them to develop into a lawyer. This unit has limited places.

Workshops: 2 hours per week.

Prerequisites: Completion of all Part 1 units in the LLB.

### **Introduction to Livestock Science and Genetics (ANS101)**

Credit Points: 3

MURDOCH: S2-internal, UA6-internal (closed)

This unit provides an introduction to the theory and practice of animal production systems. Animal production will be explored through an introduction to soils and soil structure, plant and pasture science, quantitative genetics and a broad coverage of livestock farming systems. Practical classes will utilise the university farm to enhance the understanding of each topic studied, including practical skills in the safe handling of sheep, cattle, horses and pigs using low-stress handling methods where possible.

Lectures: 3 hours per week; practicals: 3 hours per week; workshops: 1.5 hours per week (WA Farm Safety Workshop). For SUMMER-AUT UA6 offering: Lectures: 32 online; practicals: 24 hours over a two week period; WA Farm Safety Workshop: run over 3 days.

One 1.5 hour workshop per week as part of Farm Safety.

Prerequisites: Enrolment in Bachelor of Animal Science, Animal Science major or Veterinary Biology major.

Exclusions: Students who have successfully completed ANS101 Animal Production Systems I or VET242 Animal Systems I cannot enrol for credit in this unit.

### **Introduction to Marine Biology (BIO180)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an introduction to marine organisms and ecosystems and thus a framework for further study of marine biology. Students will develop specialist knowledge in marine biology and skills in the identification of marine organisms and the conduct of marine research. The main topics covered are: (i) the marine environment; (ii) the types and variety of marine organisms; and (iii) major ecological categories of marine organisms.

Lectures: 2 hours per week; laboratories: 2 x 3-hour sessions (includes 1 hour pre-lab) over the semester; workshops: 4 x 2-hour sessions; field work: 2 x 3-hour sessions or equivalent.

Prerequisites: Nil.

### **Introduction to Media Studies (CMS101)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to foundational concepts and theories relevant to the study of media. Media is understood as a global discourse that is traditional and contemporary, incorporating historical and new perspectives. We explore the role media plays in shaping institutions, identities and legal and ethical positions.

Students will have opportunities to think critically about these issues via mixed modes of assessment.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC108 Introduction to Communication and Media may not enrol in this unit.

### **Introduction to Mooting (LLB314)**

Credit Points: 3

MURDOCH: S1-internal (quota of 40 places)

The Moot Court Bench is responsible for strengthening and developing the mooting culture at the Law School and provides students with practical moot training. Those enrolled are involved in a range of mooting related activities, with the Unit designed to improve the research, writing and advocacy skills of students. Students will work directly on moot questions and be provided with a strong practical introduction to mooting.

Workshop: 2 hours per week.

Each week the workshops will include theory and practical activities.

Prerequisites: Successful completion of all Part 1 units in the LLB

Exclusions: Students who have successfully completed LAW314 Moot Court Bench may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to limited resources. Selection is based on: Academic record and standing; Demonstrated speaking, debating and mooting ability.

### **Introduction to Musculoskeletal Human Anatomy (CHI168)**

Credit Points: 3

MURDOCH: S1-internal, S2-external

Musculoskeletal anatomy explores the architecture of the human frame. This unit is for students interested in learning anatomical language and improving their knowledge of the human musculoskeletal system. Students gain a broad understanding of human musculoskeletal anatomy. This unit presents a blended approach to learning anatomy. Online formative and summative assessments will measure learning outcomes.

Internal: Practical: 1 x 2 hours per week; Workshop: 1 x 1 hour per week.

External: Practical: 2 x 1 day during non-teaching break (optional).

Prerequisites: Nil.

Exclusions: Students who have completed CHI108, CHI280, CHI282, CHI2821, CHI255 or CHI234 may not enrol in this unit for credit.

### **Introduction to Philosophy (PHL130)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is designed to appeal to everyone who is interested in fundamental questions about life and society, and who wants to increase their ability to understand, develop, and articulate reasoned arguments. Typical questions: What is the mind? Is there a God? Do we have free will? Do animals have rights? What moral obligations do we have to people who are starving? Is reason more important than emotion? What is the ultimate nature of reality? Do our lives have meaning?

Lectures: 1 hour per week; tutorial: 1.5 hours per week.

Prerequisites: Nil.

### **Introduction to Psychological Health and Wellbeing (PSY172)**

Credit Points: 3

MURDOCH: S2-internal

Psychology has an important role in designing systems that make people happy, healthy and productive. This unit will critically examine the concepts of 'health', 'wellbeing' and 'happiness', and will demonstrate how to add quality to people's lives, through research-guided practice and the application of behaviour change principles. Topic areas include: coping with and overcoming psychological pain and stress, addictions and disabilities; in addition to promoting healthier behaviour in the community.

Lectures: 2 hours per week; Tutorials: 1 hour per week.

Prerequisites: Nil.

This unit is a core unit in the BSc (Cognitive Neuroscience and Health Psychology), and a recommended elective for the BSc (Psychology), BA (Psychology) and the BA (Social and Developmental Psychology).

### **Introduction to Psychological Research Methods (PSY173)**

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces students to methods of research used to answer psychological questions. Students will explore basic approaches to research design and analysis, and issues that affect decision-making in research. The aims in this unit are to provide a foundation for understanding the process of psychological inquiry and to provide students with the knowledge and skills needed to critically evaluate studies in the psychological literature.

Murdoch: 30 contact hours consisting of 19 hours of lectures (in 7 of the 12 teaching weeks there are 2x 1 hour lectures per week, and in the other 5 teaching weeks there is 1x1 hour lecture per week) and 11 hours of tutorials.

Prerequisites: Nil.

### **Introduction to Psychological Science (PSY141)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

The psychological sciences seek to explore and understand the realms of human behaviour, emotion and thought using scientific methods that allow us to pose and answer questions about ourselves and our societies. Do IQ tests really measure intelligence? What causes schizophrenia? Why are some people intolerant of others? These and many other questions are addressed in modern scientific psychology. This unit provides an introduction to the discipline of psychology for students from any discipline.

Lectures: 12 x 1.5 hours; Tutorials: 10 x 1 hour

Prerequisites: Nil.

### **Introduction to Public Relations (MCC107)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit introduces students to the practice and theory of public relations, including its history in Australia, and internationally, and the development of communication strategies and tactics for

publics. It allows students to begin to develop an understanding of ethical issues, professional values, campaign planning and writing techniques in the field of public relations as a global communications management profession. The unit also allows students to develop professional writing and presentation skills whilst working in a real-life client setting.

Lectures/tutorials: 2.5 hours per week.

Students are expected to read additional technical and academic articles, analyse contemporary communication campaigns and follow issues in the news and online media as part of their class and assessment preparation.

Prerequisites: Nil.

### **Introduction to Public Relations (PRO107)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to the practice and theory of public relations, including its history in Australia and internationally, and the development of communication strategies and tactics for publics. It allows students to begin to develop an understanding of ethical issues, professional values, campaign planning and writing techniques in the field of public relations as a global communications management profession. The unit also allows students to develop professional writing and presentation skills whilst working in a real-life client setting.

Lectures: 1 hour; tutorials: 1.5 hours.

Students are expected to read additional technical and academic articles, analyse contemporary communication campaigns and follow issues in the news and online media as part of their class and assessment preparation.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC107 Introduction to Public Relations cannot enrol for credit in this unit.

### **Introduction to Radio (RAD105)**

Credit Points: 3

MURDOCH: S2-internal

This is a practical production unit covering the basic skills required to produce radio programs. Students learn about the development and role of radio in Australia, and acquire proficiency in location recording, digital editing, interviewing, feature reporting and studio presentation.

Lectures: 1 hour per week, cover the techniques and theories of radio production, media law and ethics and the Australian radio industry; workshops: 1.5 hours per week, examine and critique radio media content and develop student radio skills; technical workshops cover an introduction to audio editing, audio mixing and studio operation.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC105 Introduction to Radio and Sound Production may not enrol in this unit for credit.

### **Introduction to Research for Educators (EDU610)**

Credit Points: 6

MURDOCH: S1-internal, S1-external, S2-external  
DUBAI-ISC: TJD-internal, TSD-internal

This unit introduces participants to a range of research methodologies used in educational and social science research. The unit will examine the application of different interpretive

frameworks and their implications for research design, data collection and analysis. Participants will develop critical research literacies by both reviewing and planning for research.

Lectures/seminars: 1 x 3 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EDU434/634 Introduction to Qualitative Research Methods OR EDU438/638 Introduction to Quantitative Research Methods OR E501 Qualitative Research Methods OR EDU603 Introduction to Research for Educators may not enrol in this unit for credit.

### **Introduction to Research Methodology and Evidence Based Practice (BSC206)**

Credit Points: 3

MURDOCH: S2-internal

This unit is designed with the assumption that scientific inquiry should form the basis of patient care. The primary goal for this unit is to introduce students to the scientific method for clinical decision making in healthcare. Students will develop proficiencies in information retrieval, research design, data analysis and critical appraisal. These skills will initiate the process of lifelong learning required to provide high quality patient care in their respective professions.

Live lectures: 1 hour per week; tutorials: 2 hours per week.

Online Assessment/Learning Activity: 2 hours per fortnight; Online Lecture: 1 hour per week.

Prerequisites: 100-level Transition Unit.

Exclusions: Student who have successfully completed CHI106/EXS106 Introduction to Research Methodology and Evidence Based Practice or BSC203 Introduction to ICT Research Methods or BSC200 Research in the Physical and Life Sciences or BSC201 Psychology: Measurement, Design and Analysis may not enrol in this unit for credit.

### **Introduction to Server Environments and Architectures (ICT171)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

We live in an increasingly online and connected world. Beyond our desktop computers, tablets and smart phones exist the servers, software and back-end infrastructure that store our files, send our email, deliver the World Wide Web and implement social networking. Students will implement Windows and Linux servers in 'bare-metal', virtual and cloud environments. Issues examined are associated with large scale computing resources, storage, backup, disaster recovery, management, costs, legislation and whether to deliver in-house or to outsource.

Lectures: video lectures; computer laboratories: 1 x 2 hours per week.

Prerequisites: Nil.

### **Introduction to Social Media (PRO101)**

Credit Points: 3

MURDOCH: S2-internal  
DUBAI-ISC: TMD-internal

This unit introduces social media and their application in communication management, web communications and public relations. Students learn about social media and websites as platforms for engaging users and their role in media relations and other communication activity. Students develop skills in online writing for a variety of audiences and in campaign planning,

incorporating social media platforms such as, for example, blogs, Facebook, Twitter, and Instagram. Students also learn about the theoretical implications of the network society and online communications.

Lectures: 1 hour; tutorials/laboratories: 1.5 hours.

Students are expected to read additional technical and academic articles, analyse contemporary communication campaigns and follow social, mobile and web media trends and issues as they emerge as part of their class and assessment preparation.

Prerequisites: Nil.

### **Introduction to Sociology (SOC134)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to introduce students to the richness of sociology by stimulating their curiosity about the relationship between the individual, society and the globe using sociological thinking. This unit will introduce students to the history of sociology and some of the thinkers who have influenced the discipline. It will encourage students to recognise the relevance of sociology to everyday questions about contemporary issues in the social world.

Lectures: 1 hour per week; tutorials: 1 hour per week.

Prerequisites: Nil.

### **Introduction to Sound Studies (SOU169)**

Credit Points: 3

MURDOCH: S1-internal

We are immersed in sound everywhere we go - phones, barking dogs, car alarms, church bells, football crowds, concerts, birds, musak, building sites, traffic. The city and the bush, natural, mechanical and electronic, personal and public. What impact does sound have on our lives? How has technology changed the types of sound we hear and how we use sound in our lives? This unit examines sound in our culture, how it has changed and how it could change in the future.

Lectures: 1 hour; tutorials/workshops: 1.5 hours.

During one of the tutorials students partake in a simple sound recording workshop.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC169 Introduction to Sound Studies may not enrol in this unit for credit.

### **Introduction to Sports Science (EXS124)**

Credit Points: 3

MURDOCH: S1-internal

This unit has 2 main components: health and physical fitness assessment; sports medicine. Topics covered include: definition and components of sports science and physical fitness; pre-activity screening; resting and exercise vitals; body compositions; muscular fitness; medical terminology; neurological screening; joint assessment; preventing sports injuries; sports nutrition; drugs in sport; principles of injury management; common sporting illnesses and injuries; common medical conditions affecting athletes; moving injured athletes; sports taping.

Lectures: 2 hours; laboratories: 2 hours.

Prerequisites: Nil.

Exclusions: Students who have successfully completed CHI109 Chiropractic Skills and Principles 1 (pre 2015) or CHI124 Principles of Sports Science may not enrol in this unit for credit.

### **Introduction to Statistics (MAS180)**

Credit Points: 3

MURDOCH: S1-external, S2-external  
DUBAI-ISC: TMD-internal

This unit provides an introduction to statistical techniques used to collect, summarise, interpret and present numerical information, with particular emphasis on applications from commerce, economics and the social sciences. The unit aims to show students how statistics contributes to their chosen area of study.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MAS183 Statistical Data Analysis may not enrol in this unit.

### **Introduction to Sustainable Development (SUS100)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit is a critical introduction to sustainability that traces the concept's evolution and explores the political economy of sustainability. To this end, a range of different approaches to sustainability are introduced and compared, and analysis will be made of their respective effectiveness in addressing global sustainability problems.

S1 - Lectures: 1 hour per week; tutorials/workshops: 2 hours per week.

S2 - Lectures: 1 hour lecture in Week 1 and in Week 14; tutorials/workshops: 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed STP108 Introduction to Sustainable Development or STP109 Approaches to Sustainable Development may not enrol in this unit for credit.

### **Introduction to the Animal Body (ANS102)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an introduction to the theory and practice of animal biology. It begins with a functional study of each of the major body systems, with reference to the life cycle from conception to death. Following this, the principles of evolution and biological diversity are explored, with emphasis on the gross morphology and functional biology of higher vertebrates. Practical classes complement the lectures and emphasise the importance of detailed observation and dissection in biology.

Lectures: 3 hours per week; laboratories: 3 hours per week.

Prerequisites: Nil.

Exclusions: Students who enrol in or have completed this unit may not enrol in BMS101 Introduction to the Human Body for credit.

### **Introduction to the Bible (REL204)**

Credit Points: 3

Not available this year

Many aspects of Western Culture, including Law, Political structures, Literature, and Music, have been based on and influenced by biblical texts. An understanding of these texts is fundamental to the understanding of the history and development of Western Culture and its religious institutions and practices. This unit examines the various types of texts contained in the Bible and provides historical and literary approaches to facilitate the interpretation of these foundational texts.

Lectures: 1 hour; tutorials: 1 hour.

Prerequisites: Nil.

### **Introduction to the Human Body (BMS101)**

Credit Points: 3

MURDOCH: S1-internal

This unit is designed to introduce students to the living human body. It begins with learning about the different cells and tissue types found in the body and then proceeds to the functional and gross anatomy of each of the major body systems. This unit will also deal with concepts of disease, ageing and death. Practical classes complement and reinforce lectures, and emphasise the importance of detailed observation and dissection in biology.

Lectures: 3 hours per week; laboratories: 3 hours per week; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who enrol in or have completed this unit may not enrol in ANS102 Introduction to the Animal Body for credit.

Optional: Peer Assisted Study Sessions (PASS) are available for this unit.

### **Introduction to the Minerals Industry (ENG193)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The Earth's origin and dynamic nature are covered within the context of plate tectonics, mineral deposits and ores found within its crust. The interplay of the economics of the mineral resource sector and the energy and industrial emissions involved in recovery and processing are explored. Major unit operations of mineral processing, pyrometallurgical and hydrometallurgical flowsheets, financial management, occupational health and safety, sustainability and environmental aspects in the local/global mineral industry are discussed.

Lectures: 3 hours per week.  
External: Internet access required.

External students will require Internet access.

Prerequisites: Nil. Knowledge of physical sciences at senior high school level is assumed.

Exclusions: Students who have successfully completed EXM131 Introduction to Extractive Metallurgy may not enrol in this unit for credit.

### **Introduction to the New Testament (THE507)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

An introduction to the events and literature of earliest Christianity. We begin by asking Who was Jesus of Nazareth? Why are there four 'gospels' in the New Testament - and more elsewhere? Who were Jesus' first followers, and what do their writings reveal about the beliefs and practices of this new movement? By examining the New Testament in light of its original cultural context, this unit enables a fresh encounter with a book that has proven enormously influential in world history.

Seminars: 1 x 2 hours per week

Prerequisites: Enrolment in graduate-level study.

### **Introduction to the Old Testament (THE506)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides an introduction to the varied literature of the Old Testament, written over the course of hundreds of years and reflecting a diversity of situations and experiences. As well as an overview of the contents and themes of the literature, it will explore aspects of its historical and cultural setting within the Ancient Near East. Throughout the unit students will be introduced to methods and issues in modern study of the Old Testament, and to available resources.

Seminar: 1 x 2 hours per week.

Prerequisites: Enrolment in graduate-level study.

### **Introduction to the Screen (MCC116)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

An introductory unit which lays the groundwork for further analytical and practical units. Its objectives are: to familiarise students with the different ways in which screen texts are studied; to introduce students to concepts of narrative, style and genre in filmic texts; and to introduce students to the basic terminology of visual language.

Lectures: 1 hour per week; tutorials: 1.5 hours per week; film screenings: 2 hours per week.

Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED116 Introduction to Screen and Sound Studies or MCC116 Introduction to Screen and Sound Studies may not enrol in this unit for credit.

### **Introduction to the Screen (SCR100)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

An introductory unit which lays the groundwork for further analytical and practical (Screen) units. Its objectives are: to familiarise students with the different ways in which screen texts are studied; to introduce students to concepts of narrative, style and genre in filmic texts; and to introduce students to the basic terminology of filmic and cinematic language.

Lectures: 1 hour per week; tutorials: 1.5 hours per week; film screenings: 2 hours per week.

Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC116 Introduction to the Screen may not enrol in this unit for credit.

### **Introduction to Tourism Systems (TOU101)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit outlines the structure of the tourism system and the multiplicity of sectors and industries within those systems, with a focus on events. Students are introduced to models of tourism, the global and regional dimensions of tourism and event developments. The unit also provides an introduction to tourism for sustainable development through discussions of the economics of tourism and events and associated sociocultural and environmental issues. Policy and planning for tourism and events is also an

important topic.

Workshop/Seminar 2 hours.

Working in groups; Field work and Field report writing; working with Digital Assets.

Prerequisites: Nil.

### **Invasion Biology (University of Adelaide PLANT SC 7022EX) (OTH544)**

Credit Points: 3

MURDOCH: S2-external

This unit considers the ecological theory that applies to biological invasions, including colonisation and propagule pressure, population growth, predator-prey and pathogen host interactions, Allee effects and population viability, the factors that affect the spread of invasive species, the genetics and evolution of founding populations. The biological and ecological factors that influence the impact of invasive species are evaluated. This unit is offered by the University of Adelaide as PLANT SC 7022EX Invasion Biology. Refer to <https://access.adelaide.edu.au/courses/search.asp>

Prerequisites: Enrolment in the Graduate Diploma in Plant Biosecurity or Master of Plant Biosecurity.

### **Invasive and Pest Species Management (BI0607)**

Credit Points: 3

Not available this year

This unit provides an advanced level of study in invasive and pest species management within a biosecurity context. Students will be provided with the necessary background learning and practical skills required to undertake an adaptive management role in a wide range of wildlife and/or pest species programs. This unit provides opportunity for the improvement of research skills to the student, whilst addressing the need to provide experience in applying real-world tools for managing important invasive and pest species.

Lectures: 3 hours per week (recorded and available on-line);  
Practical classes: 1 week intensive (consisting of laboratory exercises, workshops, and field trips).

Prerequisites: Enrolment in Master of Biosecurity.

### **Investment Analysis (BUS311)**

Credit Points: 4

DUBAI-ISC: TMD-internal

The main objective of this unit is to examine the return-risk profile of an individual security and the construction of optimal investment portfolios. The unit will examine the mean-variance portfolio theory, simplification to the portfolio selection process, efficient market hypothesis, capital asset pricing model, and empirical tests of equilibrium models. In addition, arbitrage pricing models, technical analysis and portfolio performance will be examined.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS224/BUS286 Corporate Finance.

### **Investment Analysis (BUS329)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

The main objective of this unit is to examine the return-risk profile of an individual security and the construction of optimal investment portfolios. The unit will examine the mean-variance portfolio theory, simplification to the portfolio selection process, efficient

market hypothesis, capital asset pricing model, and empirical tests of equilibrium models. In addition, arbitrage pricing models, technical analysis and portfolio performance will be examined.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS224/ BUS286 Corporate Finance

Exclusions: Students who have successfully completed BUS311 Investment Analysis may not enrol in this unit for credit.

### **IP: Regulating Innovation and Creativity (LLB307)**

Credit Points: 3

MURDOCH: SUM-internal (closed as the offering has reached capacity), U-internal

The statutory intellectual property system (including patents, copyright and trademarks) and allied contractual principles (like confidential information) are aimed at limiting the unauthorised spread of creative products. The legal requirements of these legal mechanisms, along with their conceptual and historical contexts, will be explored. After studying this unit, students will have an understanding of:

- \* the nature of IP law;
- \* the other techniques used by the owners of creations; and
- \* the arguments for and against regulating the spread of creative products.

24 hours contact over 2 weeks from 8-13th December (but with the weekend (10-11th Dec) as non-contact time)

Prerequisites: Completion of Part 1 units in the LLB program and LAW260 Contract or LLB260 Contract Law

Exclusions: Students who have successfully completed LLB375 are not allowed to enrol in this unit

### **Issues and Crisis Management (MCC345)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit explores the theory and practice of issues and crisis management in public relations. It provides some important principles for communicating in a conflict or crisis situation, and offers a critical understanding of stakeholder engagement in both online and offline environments. In addition to learning about conflict, issues and crisis management from a critical communication perspective, students have the opportunity to develop negotiation, mediation and conflict resolution skills and apply them through workshops and role play.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: MCC204 Public Relations: Contemporary Approaches or PRO204 Public Relations Strategy (or MCC204 Public Relations: Theory and Writing or MSC235 Public Relations: Principles and Writing Practice).

Exclusions: Students who have successfully completed MSC345/MCC345 Communication and Conflict Management may not enrol in this unit for credit.

### **Issues and Crisis Management (PRO345)**

Credit Points: 3

MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

This unit explores the theory and practice of issues and crisis management in public relations. It provides some important principles for communicating in a conflict or crisis situation, and offers a critical understanding of stakeholder engagement in both

online and offline environments. In addition to learning about conflict, issues and crisis management from a critical communication perspective, students have the opportunity to develop negotiation, mediation and conflict resolution skills and apply them through workshops and role play.

Lectures: 1 hour per week; workshops: 2 hours per week.

This unit requires you to work both independently and in teams. You will be required to draw on knowledge you have gained from previous units in the Public Relations programme and/ or undertake background reading to ensure you are able to effectively engage with the concepts discussed. You need to read the essential readings outlined in the learning guide as a minimum. You should also prepare answers to the weekly study questions, in conjunction with your reading, so you can take advantage of the class discussion time and engage with the lecture material.

Prerequisites: PRO204 Public Relations Strategy or MCC204 Public Relations: Contemporary Approaches (or MCC204 Public Relations: Theory and Writing or MSC235 Public Relations: Principles and Writing Practice).

Exclusions: Students who have successfully completed MSC345 or MCC345 Communication and Conflict Management may not enrol in this unit for credit.

### IT Group Project (ICT621)

Credit Points: 6

MURDOCH: S1-internal, S2-internal

Students will work in teams to undertake a real-world information technology project, applying skills and knowledge developed in their degree. Teams will analyse project requirements, evaluate and justify design decisions, and produce a substantial artefact. Project management, and communication with clients and other stakeholders will be emphasised. Projects can be initiated from industry needs, University needs, or proposed by the student in consultation with a discipline academic. The project culminates with a public presentation of the project deliverables.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT508 Information Technology Project Management and ICT521 IT Professional Practice, and a minimum of 24 points.

### IT Professional Practice (ICT521)

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on current expected professional practice in the information technology (IT) industry, and the legal and ethical challenges raised by new technologies. Topics include: professional standards and codes of practice; modes of communication including professional presentations and technical writing; legal requirements and responsibilities, including privacy issues; copyright and intellectual property issues; employment and principles of human resource management within the organisation and across a global context.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level IT course or permission of the Academic Chair.

### IT Professional Practice Project (ICT302)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

Students in this team-based unit will use IT approaches to solve 'real world' problems from a range of domains. Creation of

relevant project deliverables will require students to build upon skills developed during their studies. Students will be expected to appreciate the interdisciplinary nature of their project and how the skills of team members from different IT majors are required to solve complex problems. Project management and communication with clients and other stakeholders in a professional manner will be emphasised.

Workshops: 2 hours per week.

1 hour per week supervisor meetings. Meetings with the project client as required. Team meetings.

Prerequisites: Students must be enrolled in an IT major and have accumulated 56 credit points. Students should also have passed ICT290 Games Design and Programming, OR ICT284 Systems Analysis and Design and ICT285 Databases.

Exclusions: ICT333 Information Technology Project OR ICT313 Games Technology Project.

### Japanese 1 (JPN101)

Credit Points: 3

MURDOCH: S1-internal

This unit introduces basic communication skills in Japanese. Great emphasis is placed on oral communication while working interactively in classroom sessions. The unit deals with many topics related to students' everyday life. The situations practised are those which students are likely to encounter when meeting Japanese people anywhere. Students will be able to hold simple conversations with Japanese-speaking people, covering a range of topics such as themselves, family and friends, university life and study, and daily activities.

Language classes: 4 hours per week.

Lectures: 1 x 2 hours per week; tutorials: 2 x 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed JPN171 Japanese IA cannot enrol for credit in this unit.

Advanced students including those who have WACE qualification in Japanese as Second Language or equivalent should consult with the Academic Chair of Asian Studies to determine level of entry. This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement. If taken as a University-Wide Breadth Unit, this unit will contribute to satisfying that Part II requirement of the Bachelor degree, however its credit points will be counted as Part I points; students should note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Japanese 2 (JPN102)

Credit Points: 3

MURDOCH: S2-internal

This unit aims to develop further communication skills in both spoken and written Japanese as a continuation of JPN101 Japanese I. The material covered ranges over a diverse selection of topics with practical application for anyone considering contact with Japan, and uses the communication-oriented oral/aural approach. This unit aims to give students competence in both spoken and written Japanese at the basic level.

Language classes: 3.5 hours per week.

Prerequisites: Completion of JPN101 Japanese 1 or JPN171 Japanese 1A

Advanced students including those who have Japanese: Second Language ATAR or WACE Japanese or equivalent should consult with the Academic Chair of Asian Studies to determine level of



entry.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement. If taken as a University-Wide Breadth Unit, this unit will contribute to satisfying that Part II requirement of the Bachelor degree, although its credit points will be counted as Part I points; students should note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### Japanese 3 (JPN201)

Credit Points: 3

MURDOCH: UA3-internal

This unit aims to develop students' further communication skills in both spoken and written Japanese, and their socio-cultural understanding of Japan, as a continuation of the elementary JPN101 Japanese 1 and JPN102 Japanese 2 units. In the context of various topics relevant to university life as an exchange student in Japan, it introduces the casual register, and builds competence in the use of increasingly complex sentence structures for expressing intention and ability, making explanations and requests, and reporting past experiences.

Workshops: 3 x 2 hours per week; Weeks 1-7 inclusive.

Prerequisites: JPN102 Japanese 2 or equivalent level of competency as assessed by the Unit Coordinator.

### Japanese 4 (JPN202)

Credit Points: 3

MURDOCH: AU1-internal

In parallel with the pre-intermediate JPN201 Japanese 3 unit, this unit aims to enhance students' further communication skills in both spoken and written Japanese, and their socio-cultural understanding of Japan. In the context of various topics relevant to university life in Japan, it builds competence in manipulation of such complex sentence structures as: giving and receiving favours; expressing change, conditions, conjecture and comparison; multiple actions; permission and prohibition; hearsay; and introduces the use of relative clauses.

Workshops: 3 x 2 hours per week; Weeks 8-14 inclusive.

Prerequisites: Successful completion of JPN172 Japanese 1B or JPN201 Japanese 3, otherwise an equivalent level of competency as assessed by the Unit Coordinator.

### Japanese 5 (JPN203)

Credit Points: 3

MURDOCH: S2-internal

As a continuation of JPN202 Japanese 4, this unit aims to augment students' intermediate communication skills in both spoken and written Japanese, and to build further socio-cultural competence. In the context of various topics relevant to university life and broader contemporary social issues in Japan, it introduces such complex verb forms as the passive, causative, and imperative; and builds students' ability to express such elements as cause, purpose and conjecture; and how things appear to be.

Lectures: 1 x 1 hour per week; workshops: 2 x 1 hour workshops per week; assessment class: 0.5 - 1 hour every second week.

Prerequisites: Successful completion of JPN202 Japanese 4 or JPN204 Japanese IIA or equivalent level of competency as assessed by the Unit Coordinator.

### Japanese 6 (JPN301)

Credit Points: 3

MURDOCH: UA3-internal

This unit is the first part of a sequence in the third year course of Japanese at Murdoch, which will provide students with linguistic training at the intermediate to upper-intermediate level, as well as to enhance their knowledge about Japanese society, people, culture and history through the use of various learning materials and opportunities. While solidifying their grammatical and lexical foundation built up in previous studies, students will further expand their Japan-literacy in both language skills and socio-cultural knowledge.

Workshops: 3 x 2 hours per week; Weeks 1-7 inclusive.

Prerequisites: JPN203 Japanese 5 or equivalent level of competency as assessed by Unit Coordinator.

Students should co-enrol in this unit with JPN302 Japanese 7 unless being approved by Unit Coordinator.

### Japanese 7 (JPN302)

Credit Points: 3

MURDOCH: AU1-internal

This unit is the second part of a sequence in the third year course in Japanese at Murdoch, which aims to provide students with linguistic training at the intermediate to upper-intermediate level, and enhance student knowledge about Japanese society, people, culture and history through the use of various learning materials and opportunities. While solidifying their grammatical and lexical foundation built up in previous studies, students will further expand their Japan-literacy in both language skills and socio-cultural knowledge.

Workshops: 3 x 2 hours per week; Weeks 8-14 inclusive.

Prerequisites: JPN301 Japanese 6 or equivalent level of competency as assessed by Unit Coordinator.

### Japanese 8 (JPN303)

Credit Points: 3

MURDOCH: S2-internal

This unit is the final part of a sequence in the third year course in Japanese at Murdoch, which aims to provide students with linguistic training at the intermediate to upper-intermediate level, and enhance student knowledge about Japanese society, people, culture and history through the use of various learning materials and opportunities. While solidifying their grammatical and lexical foundation built up in previous studies, students will further expand their Japan-literacy in both language skills and socio-cultural knowledge.

Workshop: 1 x 3 hours per week.

Prerequisites: JPN302 Japanese 7 or equivalent level of competency as assessed by the Unit Coordinator.

### Japanese Advanced Language Project (JPN652)

Credit Points: 3

Not available this year

This unit is designed primarily for students who have completed a semester in Japan and aims to build on language skills acquired during in-country study. It focuses on advanced reading and/or translation and other skills. Students will study some issues relevant to translation as well as doing practical work in reading, translation and other skills using a range of contemporary materials.

2 to 3 hours per week or by negotiation.



Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) Asian Studies course and permission of the Unit Coordinator.

### **Journalism and Society (JOU340)**

Credit Points: 3

MURDOCH: S2-internal

The unit considers the relationship, roles and functions of the journalist in modern society. Students will investigate a range of issues which highlight the political and cultural significance of journalism in society, its application in the multi-platform digital media age and its practice in a range of subset disciplines, such as war reporting, business journalism, and its interaction with other streams of communication.

Workshops: 24 hours contact time plus online content. (Perth, KAPLAN and Dubai)

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC240 Politics, Journalism and Society may not enrol in this unit for credit.

### **Knowledge and Information Security (ICT265)**

Credit Points: 4

Not available this year

This unit focuses on knowledge and information security from both an operational and a theoretical perspective. It explores the issues involved in ensuring the confidentiality, integrity and availability of knowledge and information assets from the perspective of human physical, computer, telecommunications, and Internet security. Topics include: risks to information and countermeasures; access control; security management; establishing trust; personnel security; security planning; disaster recovery and ensuring continuity; auditing and monitoring; security education, training and awareness strategies; and legal and societal issues.

Lectures: 2 hours per week.

Prerequisites: Nil.

### **Knowledge and Organisational Learning (BUS378)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

The management of information and knowledge and its role in organisations are widely recognised as important elements contributing to international competitiveness in the new economy. This unit examines how the concepts of information and knowledge assist in the understanding of organisational processes, organisational learning and strategy. Topics examined include: the origins and future of knowledge management; knowledge management and concepts; knowledge and organisational strategy; knowledge, IT and organisational systems; knowledge and learning in organisations; knowledge, innovation and value creation.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: BUS223 Organisational Theory and Behaviour or BUS293 Organisational Theory and Governance.

### **Knowledge Management (BUS348)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

The management of information and knowledge and its role in organisations are widely recognised as important elements contributing to international competitiveness in the new economy.

This unit examines how the concepts of information and knowledge assist in the understanding of organisational processes, organisational learning and strategy. Topics examined include: the origins and future of knowledge management; knowledge management and concepts; knowledge and organisational strategy; knowledge, IT and organisational systems; knowledge and learning in organisations; knowledge, innovation and value creation.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS223 Organisational Theory and Behaviour or BUS293 Organisational Theory and Behaviour.

Exclusions: Students who have successfully completed BUS378 Knowledge and Organisational Learning may not enrol in this unit for credit.

### **Knowledge Management (ICT505)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines the role of knowledge management in organisations and its principles and practices. It includes a consideration of theories of knowledge and approaches to KM, drawing on a range of perspectives such as management, library science, cognitive science, AI and psychology. Topics include document-centric practices and information management; social approaches including communities of practice; organisational memory and learning organisations; knowledge representation including ontologies; cultural aspects of knowledge, and situating KM practices within an organisational context.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate-level IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT556 Knowledge Management Techniques may not enrol in this unit for credit.

### **Knowledge Management Techniques (ICT256)**

Credit Points: 4

DUBAI-ISC: TMD-internal

Knowledge Management involves extending traditional information management practices to enable the entire intellectual resources of an organisation to be available, in a repeatable, scalable and transferable manner. In this unit we consider the techniques that underpin KM. Topics include: theories of knowledge, the nature of documents and document management, knowledge elicitation, knowledge representation techniques including ontologies, knowledge discovery, and knowledge life cycles within an organisational context. The theoretical component is complemented by practical work using standard industry knowledge modelling tools.

Lectures: 2 hours per week; tutorials: 2 hours per week (1 hour unsupervised).

Prerequisites: ICT107 Principles of Information Systems.

### **Kulbardi Summer & Winter School (KACoog)**

MURDOCH: SS2-internal, SS2-external, W-internal, W-external

This unit is an introduction to undergraduate studies. It covers the basic learning skill required for university success.

Tutorials: 3 hours per week

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who are enrolled in the Ngoolark program, or by permission from the Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

### Laboratory Medicine Practice I (BMS431)

Credit Points: 6

Not available this year

This is a Work Integrated Learning (WIL) unit, undertaken in a diagnostic pathology laboratory. Students will develop an understanding of the roles of the medical scientist in the professional setting, including the importance of ethics, confidentiality, codes of conduct, occupational work health and safety, and laboratory accreditation. Students will be subject to the rules and regulations of the host laboratory, supervised by laboratory staff, and be expected to comply fully with these requirements.

1. Work Integrated Learning (WIL) Placement: You will spend 12 weeks (60 days) in a NATA accredited diagnostic pathology laboratory. This placement is not guided by the standard semester structure at Murdoch University, but rather the requirements of the host laboratory.
2. Pre-WIL placement session: A series of information sessions will be held before commencing your WIL placement. These sessions will be held over two days and are compulsory.
3. Post-WIL placement session: Case study presentations, poster presentations, and a feedback session will be conducted at the completion of the WIL placement period. These sessions will be held over three days and are compulsory.

Prerequisites: Enrolment in BMS432 Laboratory Medicine Practice II and completion of BMS322 Clinical Immunology or BMS325 Histopathology or BMS327 Diagnostic Genomics; AND any two units from BMS323 Clinical Biochemistry I, BMS324 Clinical Microbiology I or BMS326 Clinical Haematology I.

### Laboratory Medicine Practice II (BMS432)

Credit Points: 6

Not available this year

This is a Work Integrated Learning (WIL) unit, undertaken in a diagnostic pathology laboratory. Students will develop an understanding of the roles of the medical scientist in the professional setting, including the importance of ethics, confidentiality, codes of conduct, occupational work health and safety, and laboratory accreditation. Students will be subject to the rules and regulations of the host laboratory, supervised by laboratory staff, and be expected to comply fully with these requirements.

1. Work Integrated Learning (WIL) Placement: You will spend 12 weeks (60 days) in a NATA accredited diagnostic pathology laboratory. This placement is not guided by the standard semester structure at Murdoch University, but rather the requirements of the host laboratory.
2. Pre-WIL placement session: A series of information sessions will be held before commencing your WIL placement. These sessions will be held over two days and are compulsory.
3. Post-WIL placement session: Case study presentations, poster presentations (both assessment items for BMS Laboratory Medicine Practice I), and a feedback session will be conducted at the completion of the WIL placement period. These sessions will be held over three days and are compulsory.

Prerequisites: Enrolment in BMS431 Laboratory Medicine Practice I and completion of BMS322 Clinical Immunology or BMS325 Histopathology or BMS327 Diagnostic Genomics; AND any two units from BMS323 Clinical Biochemistry I, BMS324 Clinical Microbiology I or BMS326 Clinical Haematology I.

A result of Ungraded Pass or Fail is awarded for this unit.

### Land and Water Management (ENV554)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines sustainable land and water management with particular reference to Western Australia. It analyses climate, land and water resources, and deals with key threats to sustainable land and water management: climate change, altered water table levels, water contamination and soil degradation. Case studies from dryland and intensive agriculture, coastal and forested catchments will demonstrate key principles. Learning is through lectures, intensive workshops, problem solving practicals and student-delivered posters. Content complements that in environmental restoration, ecology and policy.

Lectures: 2 hours; tutorials; practicals: equivalent of 1.5 hours per week.

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

Exclusions: Students who have completed ENV310/610 Land Management may not enrol in this unit for credit.

### Language and Literacies in the Early Years (EDN461)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to prepare students for the teaching of language and literacies in the early years - children aged birth to eight years. It will build on the understandings, knowledge and skills developed in the English curriculum units and in the early childhood units.

Lectures: 1 hour per week; 1 workshop: 2 hours per week

To complete Assignment 1 students will need to locate an early childhood centre to undertake a child case study. To complete Assignment 2 students will need to conduct fieldwork in a school-based early childhood classroom (Kindergarten or Pre-Primary). Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Students will complete five distributed days (6-7 hours per day) working with children aged 2-3 years in an Australian Long Day-care Centre.

Prerequisites: Enrolment in the Early Childhood 0-8 (BEEd), OR the Early Childhood and Primary Teaching (BEEd), OR Primary Teaching BEd and successful completion of EDN111 Language for Learning and Teaching, EDN113 Living and Learning with Technology and BED150 Understanding Teachers' Work.

Exclusions: Students who have successfully completed EDN421 Literacies in the Early Years may not enrol in this unit for credit.

### Language for Learning and Teaching (EDN111)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores concepts about language and literacy learning essential for teachers in all school settings. It aims to equip students with fundamental skills needed to support language development in their own classrooms by focusing on oral language development, the formal characteristics of written texts including grammar, and the use of language for positive classroom interactions and literacy learning. Concepts presented will be further explored in BED150 Understanding Teachers' Work and EDN235 Teaching English and Literacy in Primary Schools.

Lectures/workshops: 3 hours per week.

Prerequisites: Enrolment in an initial teacher education course.

Exclusions: Students who have successfully completed EDU103

Principles of Language and Literacy may not enrol in this unit for credit.

### **LANTITE - Literacy (EDN298)**

MURDOCH: S1-external, S2-external

This zero point unit will be utilised to record the results of the Literacy component of the Literacy and Numeracy Test for Initial Teacher Education (LANTITE). Successful completion of LANTITE - Literacy, together with LANTITE - Numeracy, will meet the requirements for graduation from an initial teacher education course.

Prerequisites: Nil.

A result of Ungraded Pass or Fail is awarded for this unit.

### **LANTITE - Numeracy (EDN299)**

MURDOCH: S1-external, S2-external

This zero point unit will be utilised to record the results of the Numeracy component of the Literacy and Numeracy Test for Initial Teacher Education (LANTITE). Successful completion of LANTITE - Numeracy, together with LANTITE - Literacy, will meet the requirements for graduation from an initial teacher education course.

Prerequisites: Nil.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Law and Society (A Medieval Case Study) (LEG236)**

*As for LLB236 except:*

Credit Points: 3

Not available this year

Intensively taught over weeks 1-6 (24 hours over the semester)

Prerequisites: Nil.

### **Law and Society (A Medieval Case Study) (LLB236)**

Credit Points: 3

Not available this year

This unit examines the ways in which the laws and institutions of a society keep the competing interests of its members in balance - preventing them from finding violent resolution. Some aspects of the structure of our own society seem so 'natural' that we do not question them. In an unfamiliar society, the pragmatic role of institutions may seem more obvious to us. This unit focusses on medieval Ireland, whose laws were remarkably sophisticated.

Lectures: 24 hours of lectures taught intensively in the first half of the semester.

Prerequisites: Successful completion of all Part 1 units in the LLB

Exclusions: Students who have successfully completed LAW236/LEG236 Celtic Law and Society may not enrol in this unit for credit.

### **Law in Context (BJU150)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines the interaction between the law and various other disciplines and social groupings. A range of topical issues will be examined. These may vary from year to year, but typical examples include: History and Culture; Common Law and Aboriginal Law; Sentencing, Alternative and restorative Justice; Sentencing, Alternative and restorative Justice; Law and Social

Welfare.

Lectures: 2 hours per week; Tutorials: 1 hour per week

Students will be expected to attend court sessions and to reflect on their experiences.

Prerequisites: Nil.

### **Law in the Community (Street Law) (LLB393)**

Credit Points: 3

MURDOCH: S1-internal (quota of 20 places), S2-internal

This unit places students within schools and community groups to deliver legal information and education. It allows student to respond to particular community needs by researching the law and designing innovative and fun ways to deliver that knowledge to the broader community. This unit will develop your legal knowledge, your communication and presentation skills and provide you with an insight into how the law operates and affects the community it is supposed to serve.

3 x 7 hour workshops throughout the semester  
1 x 2 hour seminar in the final week of semester.

Liaison and consultation with the client group  
Delivery of the series of presentations

Prerequisites: Completion of all part 1 units in the LLB

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota.

### **Law Moot #1 (LLB312)**

Credit Points: 3

MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)

This unit provides students with the opportunity to study specialised areas of law and apply their knowledge and advocacy skills by participating in selected national and international moot competition. It aims to develop the research, writing and advocacy skills of participating students. Only students who are selected for one of the eligible moot teams will be enrolled in this unit.

Meetings and moots as required. Students will compete in an external moot competition, which may involve interstate or international travel depending on the competition location.

Prerequisites: Successful completion of all Part I units in the LLB and permission of the Unit Coordinator

It is recommended that students complete or are enrolled in the necessary background unit required for each moot competition. Students may not enrol in more than one moot at the same time except by permission of the Unit Coordinator and Academic Chair for Law.

This unit is subject to quota. Quota is due to limited resources and maximum team eligibility requirements of individual moot competitions. Selection is based on: Academic record and standing; Demonstrated speaking, debating and mooted ability.

### **Law Moot #2 (LLB315)**

Credit Points: 3

MURDOCH: H-internal (quota of 40 places), S1-internal (quota of 40 places), S2-internal (quota of 40 places), SUM-internal (quota of 40 places), U-internal (quota of 40 places), W-internal (quota of 40 places)

This unit provides students with the opportunity to study specialised

areas of law and apply their knowledge and advocacy skills by participating in selected national and international moot competitions. It aims to develop the research, writing and advocacy skills of participating students. Only students who are selected for one of the eligible moot teams will be enrolled in this unit.

Nil

Meetings as required. Students will compete in the external moot competition, which may involve interstate or international travel depending on the competition location.

Prerequisites: All Part 1 units in the LLB and , permission of the Unit Coordinator

This unit is subject to quota. Quota is due to limited resources and maximum team eligibility requirements of individual moot competitions. Selection is based on: Academic record and standing; Demonstrated speaking, debating and mooted ability.

### **Law of Occupational Health and Safety (LLB372)**

Credit Points: 3

Not available this year

Safety is said to be paramount in workplaces of today. This unit centres on managing foreseeable risks and places the primary duty of care on employers. Breach of this duty may constitute a criminal offence and impose liability not just on the employer but extend it to its 'officers'. This unit will examine the current statutory regime, as well as any pending changes to relevant legislation.

Lectures: 24 hours taught intensively in the summer break.

Prerequisites: Successful completion of all Part I units in the LLB, and LLB260/LAW260 Contract.

Exclusions: Students who have successfully completed LAW372 Law of Occupational Health and Safety may not enrol in this unit for credit.

### **Law of Planning (LLB367)**

Credit Points: 3

Not available this year

This unit introduces the legal principles and statutory framework governing the regulation of town planning and land development in WA and beyond. It considers control at the State, regional and local government levels, rights of appeal against subdivision, development and building decisions, the jurisdiction of the State Administrative Tribunal in resolving disputes, the role of environmental assessment and approval in planning outcomes and compensation for the use and acquisition of land for public purposes.

24 hours Taught intensively in 1 week.

Prerequisites: Successful completion of all Part I units in the LLB, and LLB358/LAW258 Australian Administrative Law.

Exclusions: Students who have successfully completed LAW367 Law of Planning may not enrol in this unit for credit.

### **Law, Justice and Social Policy (LEG100)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The purpose of this unit is to engage students in a critical discussion of our criminal justice system. Beyond basic knowledge acquisition of the Australian Criminal Justice System, students are challenged to think about the meaning of the term 'justice' and how this concept can differ from one individual/group to another. Students are required to think outside of their own perspective and to begin to

appreciate the influences that impact on the lives of various citizens.

Lectures: 1.5 hours per week; tutorials: 1.5 hours per week commencing Week 3.

Prerequisites: Nil.

Exclusions: Students may not enrol in this unit for credit toward the LLB or Juris Doctor (pre-2014).

Students enrolled in the LLB/Criminology combined degree must enrol in this unit for credit towards their Criminology (BA) degree.

### **Leadership Dynamics: From Follower to Leader (MBS601)**

Credit Points: 3

MURDOCH: T2-internal, T2-external

Enabling a context within which people can exceed their mission is the central purpose of leadership. This module supports participants by helping them reflect on their behaviours and attributes as managers by responding to key Qs: Where am I in my leadership journey? How do I respond to evolving externalities and what changes will I need to make to transition from a follower to a leader? This module will enhance and activate your transition from a follower to a leader.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **Leadership in Health Care (SHP511)**

Credit Points: 3

MURDOCH: S1-external, S2-external

This unit introduces students to leadership in diverse health care environments. It explores the complexities and challenges of strategic leadership, and examines theoretical and contemporary evidence based practice perspectives within the context of the Australian Health Care System and current research. The relationships between leadership, strategic planning, health workforce development and organisational outcomes are discussed. This unit is suitable for health professionals working in leadership and management roles, and those aspiring to do so.

External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR611 Strategic Leadership in Health Care may not enrol in this unit for credit.

### **Leading and Managing Nonprofit Organisations (MBS651)**

Credit Points: 3

MURDOCH: SP17-internal, SP17-external

Nonprofit organisations operate in areas including welfare, education, community development, health, sport, arts, tourism, politics and the environment. Run by community groups, faith-based organisations, large bureaucracies, entrepreneurs and committed citizens, their contribution to the economy is incalculable, and the variety in their forms and operations vast. This unit will explore leadership and management of nonprofit organisations, their context, the theory surrounding their existence and operation, and consider practical aspects such as marketing, financing, governance, and people management.

The unit is offered in intensive mode at South Street Campus with Thursday evening and Saturday classes over the Spring teaching period totalling 24 hours of contact time.

Workshops: 4 hours per fortnight at Kaplan SGP

The development of an organisational profile for assignment 2 provides an applied focus with a critical perspective which will enhance learning in this unit.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS651 Management of Not for Profit Organisations may not enrol in this unit for credit.

### **Leading from Strategy to Operations (MBS6o8)**

Credit Points: 3

MURDOCH: T3-internal, T3-external

Building on techniques learned in the leadership theme, this unit covers the design and implementation of strategy, both at the organisation and business unit levels. It also presents the tools and methodologies for industry and competition analysis as well as techniques to tap uncontested markets to deliver fast growth and superior profitability. Emphasis is placed on the importance of execution-centered strategic planning and the management of business processes, as well as on change management and overcoming the challenges of strategy implementation.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation.

### **Leading the Engaged Enterprise (MBS663)**

Credit Points: 6

MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

The modern enterprise engages with all quarters of society as it pursues its goals. The core of the engaged enterprise is its people. It is these engaged people who execute strategy with intent while continually exploring new horizons. This unit focuses on fostering and engaging with staff by distributing leadership at all levels of the enterprise, leveraging the power of groups and reaffirms the strategic role of human capital development in learning to innovate new responses to organisational challenges.

Seminars: South Street Murdoch 4 x 6 hours (Saturday); 4 x 3 hours Thursday.

Seminars (Kaplan SGP and MUISC Dubai): 8 sessions at 4 hours per session.

At all locations there are 16 structured coaching hours assigned for this unit.

Self-directed learning online learning activities: 30 hours

Readings: 2 hours per session for approximately 20 hours

Prerequisites: Enrolment in the Master of Business Administration or Master of Business Administration Professional Practice, or Master of Human Resources Management, or Master of Professional Accounting.

Exclusions: Students who have successfully completed MBS598 Foundations of Effective Leadership, MBS671 Effective Leadership, MBS687 Effective Leadership, MBS6711 Effective Leadership or MBS6712 Effective Leadership may not enrol in this unit for credit

### **Learners and Learning Environments (EDN561)**

Credit Points: 3

MURDOCH: ST2-internal, ST2-external

This unit focuses on learners and learning environments. It addresses major theories of learning and development, with particular emphasis on motivation and learner cognitive, social and

emotional development. Drawing on the field of Educational Psychology, the unit enables students to understand research about learning and the implications for effective learning and teaching practice. Throughout the unit, students will develop awareness of their own beliefs and approaches to learning and show how key theories and research will underpin their teaching practice.

Seminars: 2 hours per week over 9 weeks.

Prerequisites: Enrolment in the Master of Teaching (Primary); Co-enrolment in, or completion of, EDN5501 Transition to Teaching.

### **Learning and Assessment Processes (EDN545)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on learning and assessment processes in education. It addresses major theories of learning, aspects of affective and social development and implications for educational practice. The unit also addresses principles and processes of assessment and evaluation as integral to the teaching-learning process. An overarching emphasis is the connection between theory, research and classroom practice, within the learning, teaching and assessment cycle. This unit provides foundations for understanding the psychological and practical aspects of effective learning environments.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Enrolment in the Graduate Diploma in Education (Primary) or Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching.

Exclusions: Students who have successfully completed EDU241 Processes of Learning OR EDU244 Processes of Assessment or EDN245/EDU242 Learning and Assessment: Theory and Practice OR EDN221 Learning and Teaching OR EDN222 Learning, Teaching and Assessment may not enrol in this unit for credit.

### **Learning and Teaching (EDN221)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

EDN221 addresses learning processes and teaching for effective learning. Students will explore key theories associated with learning and motivation, as well as learner cognitive, social and emotional development. Students are provided with opportunities to better understand themselves as learners and develop ideas about their intended teaching practice. By understanding how effective learning and teaching is informed by research in educational psychology, this unit enables students to begin developing their own emerging philosophy of teaching and learning and effective practice in learning environments.

Lectures: 1 hour per week; workshops: 2 hours per week

Prerequisites: Successful completion of BED100 Ideas in Education, and BED150/EDN112/EDN1121 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching

Exclusions: Students who have successfully completed EDU242 Learning and Assessment: Theory and Practice or EDU245 Learning and Assessment Processes may not enrol in this unit for credit.



### Learning and Teaching in Educational Communities (EDN300)

Credit Points: 3

MURDOCH: ST1-placement, ST2-placement, ST3-placement, ST4-placement

Students have the opportunity to experience a learning environment within a school/community or an overseas educational institution. Students will provide a service to the learning community while at the same time being mentored by a teacher or site-based educator. Students undertake a project related to the particular environment in which they are placed whether it be a school or community organisation. The project will be developed in conjunction with the mentor teacher and/or supervisor and the University.

A pre and post experience meeting will be held and the timing of this will depend upon the type of experience and the date of the experience.

Meetings prior to the placement and other meetings will be negotiated with the School of Education and community education provider. The placement time is negotiated, but will be a minimum of 10 to 15 days or its equivalent.

Prerequisites: Permission from the Unit Coordinator.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Successful completion of this unit will be accepted in lieu of a Specified Elective or placement component if you are enrolled in the Early Childhood program. Timetabling and attendance for this unit will vary according to the individual placement arrangements negotiated.

A result of Ungraded Pass or Fail is awarded for this unit.

### Learning and Teaching in Educational Communities (IB and International Schools) (EDN517)

Credit Points: 6

MURDOCH: S2-external

The purpose of this unit is to provide opportunity to experience a learning environment within a school/community or an overseas educational institution. Students school based project engages them in observations and conversations specific to an identified curriculum or ideology. Students will explore in detail the educational communities and the teaching and learning that take place within a diverse range of schooling contexts around the globe, including the International Baccalaureate.

This is an experience based unit. Students undertake a school-based inquiry or project under the mentorship of a teacher or other education based staff member.

One 1 hour face to face online meeting at the start and conclusion of the program.

Meetings prior to the school based experience will be negotiated with the School of Education and community education provider. Time in schools will be timetabled and recorded in portfolio as evidence.

Prerequisites: Enrolment in a graduate education course.

### Learning and Teaching with ICT (EDU615)

Credit Points: 3

MURDOCH: S2-external

DUBAI-ISC: TSD-internal

This unit focuses on practical and theoretical issues related to the use of information and communications technology (ICT) across the curriculum in primary, secondary and postsecondary education. Students will critically examine ICT in the research literature, explore the affordances and plan an authentic learning environment using technology as cognitive tools.

No on-campus offering for 2017

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

Exclusions: EDU617 Learning and Teaching with ICT

### Legal Costs Assessment (LEG211)

Credit Points: 3

MURDOCH: SUM-internal

The unit will introduce students to the law of legal costs as practised in the Western Australian jurisdiction and the Commonwealth Courts. It will cover costs orders, billing practices, costs agreements and the costs assessment process. There will also be some comparative analysis with costs regimes in other jurisdictions.

24 hours over the five days, 9am to 3pm, for the first four days (with a one-hour lunch break each day) i.e. 4 days x 5 hours = 20 hours, plus 4 hours on the last day.

Exclusions: Students who have completed LLB210 The Law of Costs may not enrol in this unit for credit.

### Legal Practice Placement I (LLM512)

Credit Points: 6

MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)

Gain the practice experience necessary for admission to the legal profession. You will be placed within the Legal Practice run in collaboration with SCALES Community Legal Centre and gain experience in any or all of our practice areas such as human rights, family or generalist law. This unit provides opportunity to undertake varied legal work under the supervision of our solicitors, including interviewing clients, legal research, formulating and giving advice as well as law reform and policy work.

Participate in practice under the supervision of a solicitor and/or migration agent.

This happens twice a week for a full day. During the practice day the student will also engage in case conferences and case meetings with their supervisors and other student

Prerequisites: Enrolment in the Graduate Certificate in Legal Practice.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to the practical skills focus limiting student numbers. Preference will be given to students based on their previous academic performance in clinical units.

### Legal Practice Placement II (LLM513)

Credit Points: 6

MURDOCH: S1-internal (quota of 10 places), S2-internal (quota of 10 places)

This unit extends the practice experience covered in Legal Practice Placement I and develops the skills necessary for admission to the

legal profession. Continuing your placement with SCALES Community Legal Centre this unit will also introduce more law reform and policy work, developing a deeper understanding and critique of the law and the legal system. It will also further develop your lawyering skills through work on more complex cases.

Participate in practice under the supervision of a solicitor and/or migration agent.

This happens twice a week for a full day. During the practice day the student will also engage in case conferences and case meetings with their supervisors and other student

Prerequisites: Enrolment in the Graduate Certificate in Legal Practice; LLM512 OR concurrent enrolment with LLM512

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to the practical skills focus limiting student numbers. Preference will be given to students based on their previous academic performance in clinical units.

### **Legal Protection of International Human Rights (LLB337)**

Credit Points: 3

GENEVA: S2G-internal

This unit will review the legal nature, content and application of international human rights. Human rights standards as set out in regional and international treaties and declarations will be considered, together with an in-depth look at the rights of interest to particular groups such as women, children, indigenous peoples and refugees. The unit will involve a consideration of fundamental human rights standards recognised and how these are enforced through international and regional mechanisms.

In relation to the Geneva (S2G) enrolment option for this unit, students will have 24 hours taught intensively in the winter break in Geneva.

Prerequisites: All Part 1 units in the LLB, LAW259/LLB259 Constitutional Law, and completion / concurrent enrolment in LAW258/LLB358 Australian Administrative Law.

Exclusions: Student who have successfully completed LAW337 Legal Protection of International Human Rights may not enrol in this unit for credit.

The S2G enrolment option for this unit is offered as part of the International Human Rights Law Program in Geneva, Switzerland. Enrolment in this program is by application, and applications require payment of a deposit. Students enrolling in the program are responsible for their own airfares, accommodation and incidental expenses during the program. Contact the School of Law for further information.

### **Legal Research Methods for Honours (LLB582)**

Credit Points: 3

MURDOCH: H-internal, Y-internal

This unit aims to equip students with the requisite skills in advanced legal research and writing in preparation for completion of the honours thesis. It provides students with an introduction to some of the current legal research paradigms and their methodologies together with opportunities to revise and reinforce their legal research skills. Students will develop a literature review and provide a presentation on their research proposal as part of the learning activities in this unit.

Seminars: up to 24 hours.

Prerequisites: Admission to the Honours Programme in Law or Legal Studies (pre 2017) or Law Business and Society.

### **Legal Theory and Research (BJU300)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides an understanding of jurisprudence and of the historical context in which law has developed. Students will learn how to formulate a research hypothesis informed by legal theory. The unit surveys the classical origins of the rule of law, the historical events that influenced the development of theories of law, and the contributions of legal theorists. Topics include natural law, legal positivism, evolutionary legal theories, Marxist jurisprudence, legal realism, critical legal studies and feminist jurisprudence.

Lectures: 2 hours per week; workshops: 1.5 hours every two weeks.

Prerequisites: BJU200 Researching Legal Remedies or BJU200 Research Methods for Law

Exclusions: Students who have successfully completed LAW366 Jurisprudence or LAW301 Legal Theory cannot enrol in this unit for credit.

### **Legal Writing for Lawyers (LLB120)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit will develop the legal research and writing skills necessary for success in the study of law and in producing legally-based research in your future career. It considers the principles of clear writing (or 'plain English') in various kinds of legal writing. It will introduce students to fundamental legal research skills (particularly in the use of secondary legal materials), and ethical aspects of legal scholarship.

Lectures: 1 hour per week, Tutorials: 1 hour, timetabled weekly but each student attend fortnightly

Online self-instruction: 1 hour per week.

Prerequisites: Enrolment in LLB AND successful completion of LEG150 (prior to 2012) or LAW150 Australian Legal System or BJU100 Australian Legal System, OR concurrent enrolment in BJU100 Australian Legal System.

Exclusions: Students who have successfully completed LAW120 Research and Writing/LAW120 Legal Writing for Lawyers may not enrol in this unit for credit.

### **Life, Death and Meaning (PHL377)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit will cultivate and strengthen students' understanding of the discipline of philosophy. By examining the work of seminal thinkers from the history of philosophy, students will consolidate their knowledge of philosophy and explore its relevance to a modern context. Through synchronic and diachronic 'dialogue' with the thinkers presented, students will further develop the analytic and research skills necessary for success in the discipline. We will look at texts by Plato, Aristotle, St Augustine, Locke, Hume, Kant, Husserl and Heidegger.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: PHL130 Introduction to Philosophy, PHL131 Critical and Creative Thinking, PHL205 Critical Metaphysics, completion of or concurrent enrolment in PHL317 Meaning and Interpretation.

**Literacies in the Early Years (EDN421)**

Credit Points: 4

Not available this year

This unit aims to prepare students for the teaching of language and literacies in the early years: children aged birth to eight years. It will build on the understandings, knowledge and skills developed in the English curriculum units and in the early childhood units.

To complete Assignment 1 students will need to locate an early childhood centre to undertake a child case study. To complete Assignment 2 students will need to conduct fieldwork in a school-based early childhood classroom (Kindergarten to Year 1). Details are provided in the Unit Information and Learning Guide which will be available online at the commencement of the semester.

Prerequisites: Enrolment in the BEd Early Childhood 0-8 OR BEd Early Childhood and Primary Teaching; AND successful completion of EDN111 Language for Learning and Teaching, AND EDN113 Living and Learning with Technology, EDN112/EDN1121/BED150 Understanding Teachers' Work.

**Literacy and Learning (EDN563)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on strategies for meeting the literacy-learning needs of diverse learners. Informed by evidence-based practice and recent theoretical understandings, participants will identify strategies to support literacy learning through a balanced approach to listening, speaking, reading and writing, using a wide range of texts across all learning areas at each Primary level. Considerations of gender, and social, cultural and language background will be taken into account. Participants will explore strategies for supporting language and literacy development in Primary classrooms.

Seminars: 3 hour workshop each week for the first 7 weeks of S1.

Prerequisites: Enrolment in the Master of Teaching (Primary); successful completion of or co-enrolment in EDN5501 Transition to Teaching.

**Literary Theory (EGL346)**

Credit Points: 3

Not available this year

In this unit students engage with a range of contemporary theoretical approaches to the study of literature, with a particular emphasis on postmodernism, post-structuralism and feminism. Students' understanding of literary theory is developed through their critical reading of works of literature, including a number of contemporary texts.

Lectures: up to 1 hour/wk; tutorial up to 1.5 hours/week.

Ongoing online discussion (for external students)

Prerequisites: Nil.

Exclusions: Students who have successfully completed EGL354 Literary Theory may not enrol in this unit for credit.

**Literature Review (CHE576)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

The literature review is a substantial piece of writing reviewing literature in a topic relevant to the research being carried out for the Honours thesis topic and agreed upon in consultation with the project supervisor. Students normally undertake this unit in their

first Honours semester.

Prerequisites: Enrolment in Honours in Chemistry or Honours in Mineral Science.

**Living and Learning with Technology (EDN113)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on technologies, not as hardware and software that are objects of study themselves, but as tools for personal learning and contemporary teaching. The unit will give students the opportunity to explore technology as social beings, as student learners and as classroom teachers. Tasks will be documented and presented in a website that students create, and will focus on the creation of authentic and useful products (such as websites and digital teaching resources).

Lectures: 1 hour per week, Workshops: 1 hour per week.

Lectures: 1 hour per week (online).

Prerequisites: Enrolment in an initial teacher education course or permission from the Unit Coordinator.

The unit is designed for students to use their own technology. Internal classes are not held in computer labs (although tutorial rooms have access to an electronic whiteboard). Students who have a laptop, iPad or Internet-enabled mobile phone can bring that to class.

**Local Area Network Design and Implementation (ICT546)**

Credit Points: 3

MURDOCH: S1-internal

In this unit, the architectures of TCP/IP and OSI models are studied and students completing the unit will be conversant with the devices, technology and language of data-communications. Practical exercises with switches, routers and access-points will place the theory in context, allowing students to design, build and troubleshoot small networks. The unit covers significant portions of the Cisco CCNA Certification curriculum. For students specialising in data-communications, subsequent units will add depth and breadth to this foundation.

Lectures: 1 hour per week; Computer Laboratories: 1 x 2 hours per week.

Prerequisites: Enrolment in a graduate-level IT course.

**Love and Friendship (PHL212)**

Credit Points: 3

Not available this year

Love and friendship have long been recognised as playing a central part in the best sort of human life. But just what love is, how friendship differs from other sorts of love, and why love relationships are so important is not so readily understood. This unit explores philosophical perspectives on the nature of love and friendship, the roles of intimacy, uniqueness, constancy, reciprocity and love of humanity, as well as themes concerning autonomy, jealousy, gender and ethics.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.



**Love and Sexuality in Japan (JPN207)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The unit explores and critically analyses multiple attitudes to and manifestations of love and sexuality in twentieth and twenty-first century Japan. It provides a broad overview of demographic and social developments as affected by historical, legal, political and cultural change in Japanese and global terms, ranging from orthodox marriage patterns to the current baby shortage, diverse modes of masculinity, and sexualised fandom practices. Its multidisciplinary approach enriches background knowledge for Asian Studies and Japanese language majors, and Gender Studies minors.

Lectures: 1 x 1.5 hours per week; tutorials: 1 x 1 hour per week.

Watching prescribed films in students' out-of-class time.

Prerequisites: Nil.

Exclusions: Students who have successfully completed AST253 Special Topics in Asian Studies: Love and Sexuality in Japan or JPN206 Love and Sexuality in Japan cannot enrol in this unit.

No knowledge of the Japanese language is required prior to studying this unit, but during the unit, students will have the opportunity to become familiar with important Japanese terms for the phenomena under discussion.

**Macroeconomics A (BUS289)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit provides knowledge and understanding of macroeconomic theories and policies. A framework for analysis is developed and the determinants of unemployment, inflation and the level of output are discussed. Particular emphasis is placed upon the role of government macroeconomic policy.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS171 Foundations of Economics or BUS161 Introduction to Economics; BUS162 Economics in Society.

Exclusions: Students who have successfully completed BUS260 Macroeconomics A may not enrol in this unit for credit.

**Macroeconomics B (BUS327)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

This unit provides an advanced level of knowledge and understanding of macroeconomic principles. A framework for analysis is developed and the determinants of unemployment, inflation and the level of output are discussed. Particular emphasis is placed upon the role of government macroeconomic policy.

Lectures: 2 hours per week; tutorials: 1 hour per week.  
Tutorials commence week 2

Prerequisites: BUS260/BUS289 Macroeconomics A

Exclusions: Students who have successfully completed BUS360 Macroeconomics B may not enrol in this unit for credit.

**Making of the Modern World (HIS182)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to a variety of social, political, cultural and conflict histories and explores how the global history of the past three hundred years has shaped the contemporary world. The unit is divided into three modules - Empires, Ideologies and Revolutions - each of which will be engaged in from a global perspective, exploring historical problems from the European, Trans-Atlantic, Asian, Middle Eastern and Colonial worlds and provide an introduction to the concepts of 'different histories' and historiography.

Lecture: 1 hour per week; tutorial: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed HIS182 Turning Points in History cannot enrol for credit in this unit.

**Management Accounting (BUS287)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit examines the role of the accountant in providing information to internal management. The major areas are costing methods, budgeting and performance evaluation, and decision making.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS160 Introduction to Accounting/BUS170 Foundations of Accounting

Exclusions: Students who have completed BUS227 Management Accounting may not enrol in this unit for credit.

**Management Accounting (MBS669)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit focuses on providing accounting information to internal management. The topics include advanced costing methods and systems for services, products and overheads; information for managing resources for performance evaluation and tactical decision making. In addition contemporary approaches to measure and manage performance using non-financial indicators will be discussed.

2.5 hour seminar per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS627 Management Accounting may not enrol in this unit for credit.

**Manager as a Performance Coach (MBS604)**

Credit Points: 3

MURDOCH: T2-internal, T2-external

Addresses key issues focused on developing the participant as a manager-coach. Coaching as a profession has undergone rapid advancements over the last two decades. Inherently, coaching fundamentally revolves around boosting individual performance in changing contexts by leveraging individual talent and potential, knowledge advancement and capability enhancement. This unit will help the participant learn, assess and apply coaching frameworks

and the processes involved in their own organisational context enhancing the experiential learning activity for the participant.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **Managing a Global Business (MBS613)**

Credit Points: 3

Not available this year

This unit addresses key challenges faced by executives in managing business in a globalised world, and aims to equip students with practical knowledge and skills that will allow them to develop innovative strategies for cross-border market entry, production, marketing, human resource management, and other demanding tasks.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **Managing in a Health Care Environment (SHP612)**

Credit Points: 3

MURDOCH: S1-external

This unit introduces students to management in diverse health care environments. It explores the complexities and challenges of health care management, and examines theoretical and contemporary evidence-based practice perspectives through review of current research. Concepts of managing change, motivation, conflict, information, human resources, community engagement and organisational behaviour are discussed in the context of Australian health care organisations. This unit is suitable for health professionals working in leadership and management roles, and those aspiring to do so.

External: No attendance required.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR612 Managing in a Health Care Environment may not enrol in this unit for credit.

### **Managing Remuneration, Benefits and Motivation (MBS668)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This unit focuses on managing employee remuneration and benefits in contemporary organisations. It gives students a broad understanding of the theoretical frameworks underpinning the links between work behaviours and pay, and practical experience in designing and evaluating an effective remuneration system. Topics include the mechanics of determining relative job worth when establishing pay structures; the link between motivation theory and the use of incentive systems in performance management; the impact of economic theory and the broader environment in wage determination.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS626 Managing Remuneration, Benefits and Motivation may not enrol in this unit for credit.

### **Managing Strategic Risk and Projects (MBS684)**

Credit Points: 6

Not available this year

Strategic Risk Management (SRM) extends the concept of Risk Management in that it addresses the dynamic complexity during risk assessment processes. This innovative unit will address major types of risk management strategies at the enterprise level (Operation, Technology, Environment etc). Students will engage with Enterprise Risk Management (ERM) frameworks and develop critical skills to analyse and identify key risks and opportunities. Project Management will be utilised with the development of a project plan to mitigate enterprise risks.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS689, MBS572, MBS685, MBS641, MBS6411 may not enrol in this unit for credit.

### **Managing Uncertainty Through Scenario Planning (MBS607)**

Credit Points: 3

MURDOCH: T3-internal, T3-external

Reacting to organisational environments that evolve continuously requires managers to work with constant change and uncertainty. One avenue of responding to the complexity of such environments is to adopt a scenario planning approach as part of strategy building. Organisational strategy can be better constructed and executed by reflecting on multi-disciplinary input that result in new trends, driving forces and macro events. This module enables managers to assess externalities, develop, apply and evaluate scenarios to the organisation's strategic context.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### **Managing Wetlands and Water (ENV332)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides both the theoretical understanding and the practical skills needed to effectively manage, monitor and conserve aquatic ecosystems. The unit focuses on inland waters (wetlands, rivers and lakes), although estuaries are also considered. Management of aquatic ecosystems requires knowledge of how they function; incorporating physical and chemical processes, flora, fauna and ecology. We then engage this knowledge to address various management issues and strategies. Field, laboratory and a self-driven research project provide practical application of management skills.

Lectures: 2 hours per week; practical work: 3 hours per week.

The practical work includes one (external mode) or two (internal mode) field trips and a self-directed research project.

Prerequisites: ENV241/ENV268 Ecology

Exclusions: Students who have successfully completed ENV311 Management of Aquatic Systems/ Managing Wetlands and Water may not enrol in this unit for credit.

### **Managing, Evaluating and Developing Human Resources (MBS535)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

This unit is about managing, measuring and developing human performance at work. It addresses these issues by looking at the relationship between employee learning and development in the context of performance management. The unit thus has a strategic focus - it is about organisational systems, and the integration of the performance management and learning and development functions. Its focus is on the practical application of theory in the workplace, and it is designed to suit both HR practitioners and line managers.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS625 Managing, Evaluating and Developing Human Resources cannot enrol in this unit for credit.

### **Marine Botany (BIO254)**

Credit Points: 3

MURDOCH: S1-internal

This unit aims to provide you with a working knowledge of algal and marine plant diversity and evolution and their functional interaction with the environment. The unit will cover the algal part of the Kingdom Protista, the Cyanobacteria in the Kingdom Monera and marine representatives in the Plant Kingdom. The unit emphasises morphological diversity, reproductive processes and strategies, adaptation, function and evolution, and ecology. Emphasis is placed on marine organisms throughout the unit.

Lectures: 3 x 1 hour per week; laboratories: 3 hours per week for 7 weeks plus a non-assessed revision practical in Week 1.

Prerequisites: BIO103 Environmental Biology/Introduction to Environmental Biology or BIO180 Introduction to Marine Biology.

Exclusions: Students who have successfully completed BIO265 Plant Diversity or BIO287 Plant Diversity (Marine Science) may not enrol in this unit for credit.

### **Marine Ecology (BIO377)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines marine and estuarine ecosystems, their organisms and how these ecosystems function. Commencing with an introduction to marine ecology, followed by an examination of various aspects of planktonic, estuarine, intertidal, benthic and coral reef communities. The information is used to illustrate the temporal and spatial structure and functioning of marine ecosystems. Essential part of the unit is a one-week field camp, which will be held in the week preceding the start of Semester 1.

Lectures: 3 hours per week; computer workshops: 3 x 2 hours per week; tutorials: 1 x 2 hours; fieldwork: 1-week fieldwork component in the week before the commencement of Semester 1 (approximately 40 contact hours).

Prerequisites: BIO261/BIO244 Animal Diversity/Animal Speciation, Radiation, Evolution, or BIO287 Plant Diversity (Marine Science) / BIO254 Marine Botany or BIO265/BIO245 Plant Diversity/Plant Evolution, Radiation and Adaptation, or ENV268/ENV241 Ecology.

Exclusions: Students who have successfully completed BIO384

Marine and Estuarine Biology may not enrol in this unit for credit.

### **Marine Science Topics (ENV539)**

Credit Points: 3

Not available this year

This unit covers current topics in marine science and different ones may be offered each year. This unit will allow students to extend their learning to encompass new knowledge at the forefront of marine research and management. Examples of topics offered include quantification of human use of the marine environment, algal biotechnology, marine mammal conservation and assessment and management of data-poor fisheries.

Lectures: 12 x 2 hours in four blocks of six lectures (one block for each topic); workshops: 4 x 2 hours (one for each topic).

Prerequisites: Enrolment in a graduate-level (AQF level 8) Science course.

### **Marine Wildlife (BIO381)**

Credit Points: 3

Not available this year

This unit builds on the introduction to zoology in BIO244 and ecology in ENV241. Students will be encouraged to interpret the physiology, ecology and behaviour of marine mammals, birds, reptiles and fish in the context of the opportunities and strictures of the marine environment and the evolutionary histories of each group. They will then apply that knowledge to conservation and management problems for marine wildlife.

Lectures: 2 hours per week (recorded and available on-line);  
Practical classes: 1 week intensive (consisting of laboratory exercises, workshops, and field trips).

Prerequisites: BIO244 Animal Speciation, Radiation and Evolution OR ENV241 Ecology

### **Marketing and Advertising Law (BSL203)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit covers key legal issues relevant to the marketing of goods and service in Australia. With reference to the Australian Consumer Law, it deals with product liability, as well as legal aspects relating to product packaging and labelling, advertising and selling techniques where misleading or deceptive conduct is considered. Various legal rules protecting intellectual property rights and also covered, including patents, confidentiality law, copyright, passing off and registered trademarks.

Lectures/workshops: 2 hours per week over 12 weeks.

This teaching pattern is applicable for offerings at Murdoch South Street.

Kaplan - SGP the teaching pattern will be 4 hours per fortnight over 12 weeks

Online learning experiences

Prerequisites: Successful completion of BSL165 Foundations of Business Law / BUS165 Principles of Commercial Law

Exclusions: Students enrolled in the Bachelor of Laws (LLB), OR who have successfully completed BSL209/BUS209 Marketing and Advertising Law may not enrol in this unit for credit.

**Marketing and Advertising Law (BUS209)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit covers the regulation of marketing of goods and services in Australia, dealing with product packaging and labelling, advertising and selling techniques. The unit explains how prohibition against misleading or deceptive conduct in marketing is applied in these areas as well as the laws of intellectual property and how they protect corporations, inventors, artists and commercial designers from theft of their work. The heart of every business is its sales team and this unit provides their legal template.

Lecture: 2 hours per week; tutorial: 1 hour per week.

Assessment for this unit includes an assignment, final exam & in class assessment items aimed at testing the students' understanding and analysis of the nature and principles of marketing and advertising laws as they apply in Australia.

Prerequisites: Successful completion of BUS165 Principles of Business Law or BSL165 Foundations of Business Law.

Exclusions: Students enrolled in the Bachelor of Law (LLB), Or who have successfully completed BUS209 / BSL209 Marketing and Advertising Law may not enrol in the unit for credit.

**Marketing Research and Analysis (BUS210)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This unit is designed to provide students with an overview of the marketing research process and its basis in the scientific method. It also develops knowledge in the principles of research design, data collection, statistical analysis and report preparation and presentation. The unit examines recent developments in online research methods and the use of database marketing. Ethical issues of research are also addressed as well as difficulties involved in cross-cultural research.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: MAS180 Introduction to Statistics or BUS130 Foundational Mathematics for Business; and BUS169 Principles of Marketing or BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS235 Marketing Research and Analysis or BUS335 Marketing Research and Analysis cannot enrol in this unit for credit.

**Marketing Research and Analysis (BUS235)****As for BUS210 except:**

Credit Points: 4

DUBAI-ISC: TMD-internal

Lectures/workshops: 3 hours per week.

Prerequisites: MAS180 Introduction to Statistics or BUS130 Foundational Mathematics for Business; and BUS169 Principles of Marketing or BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS210 Marketing Research and Analysis cannot enrol in this unit for credit.

**Master of Arts by Coursework Dissertation (AIS650)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

A dissertation in a Master of Arts by Coursework requires a substantive investigation of a relevant topic under the supervision of a member of the academic staff. Students are required to report their investigation in a dissertation of approximately 20,000 words completed in accordance with University requirements.

Prerequisites: Enrolment in a Master of Arts by Coursework.

Students cannot self-enrol in this unit.

**Master of Laws (Research) (LLM700)**

Credit Points: 24

MURDOCH: H-internal, S1-internal, S2-internal, Y-internal

Prerequisites: Enrolment in the Masters of Law

**Masters by Coursework Research Dissertation (ART610)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

A Masters by Coursework Dissertation requires substantive investigation of a relevant topic under the supervision of a member of the academic staff. Students must apply for permission to undertake the Dissertation option. They should submit a short description of the topic of the proposed research and the sources to be used to the Academic Chair. Students should enrol in the Masters by Coursework Research Project in the initial instance until approval to enrol in the Dissertation has been obtained.

Prerequisites: A Distinction average in coursework and approval of the Academic Chair.

**Masters by Coursework Research Project (ART640)**

Credit Points: 3

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

A Masters by Coursework Research Project requires major investigation of a relevant topic carried out under academic staff supervision. A substantial formal report is submitted for assessment and may involve original research, a replication of published research in a different setting or applied studies of a problem-solving nature.

Prerequisites: Enrolment in a Masters course.

**Masters by Coursework Research Project (ART6401)****As for ART640 except:**

Credit Points: 6

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

### **Masters by Coursework Research Project (ART6402)**

*As for ART640 except:*

Credit Points: 9

Not available this year

### **Masters Topic in Media Production (MCC6101)**

Credit Points: 6

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This is a Master-level unit, specific to the candidate's program of study, designed to afford focus on a related area of research, praxis, pre-production or production methodology.

Prerequisites: Enrolment in coursework masters or research masters.

### **Masters Topic in Media Production (MCC6102)**

Credit Points: 6

MURDOCH: H-internal, S1-internal, S2-internal, SUM-internal, U-internal, Y-internal

This is a Master-level unit, specific to the candidate's program of study, designed to afford focus on a related area of research, praxis, pre-production or production methodology.

Prerequisites: Enrolment in coursework masters or research masters.

### **Materials Chemistry (CHE304)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Materials chemistry investigates the relationship between the atomic or molecular structure of materials and their macroscopic properties. This unit introduces the properties, characterisation techniques and applications of various materials, and the fundamental chemistry underpinning their preparation, structure and properties. Materials categories covered in this unit range from highly structured materials such as ionic compounds, metals and alloys through disordered materials such as polymers and on to advanced materials such as nano-particles, semiconductors and biomaterials.

Lectures: 3 x 1 hour per week; laboratories: 1 x 4 hours per week for 8 -10 weeks of the semester

Prerequisites: Successful completion of CHE202 Physical Chemistry I OR both of ENG202 Engineering Thermodynamics and ENG255 Chemical Process Kinetics.

### **Mathematical Methods (MAS220)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Real problems often involve a number of variables that depend on time (a vector function), or a single function that depends on many variables (a function of several variables), or a combination of both. This unit is made up of four sections: Fourier series, multivariable calculus, linear algebra and Laplace transforms. These are branches of mathematics essential for dealing with such real-world problems.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS161 Calculus and Matrix Algebra OR MAS208/MAS221 Mathematical Modelling OR equivalent.

Exclusions: Students may not enrol in this unit and either of MAS164 Fundamentals of Mathematics or MAS182 Applied Mathematics or equivalent concurrently. Students who previously

successfully completed MAS261 Mathematical Methods cannot enrol in this unit for credit.

### **Mathematical Modelling (MAS221)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit considers mathematical models, their uses and limitations. Case studies involving relatively simple mathematical ideas will demonstrate that models range from simple tools for answering 'what if' questions to quite accurate descriptions that allow useful predictions to be made. Topics: modelling of chemical, biological and physical systems (using first order ordinary differential equations); modelling of steady state systems (using matrix algebra); dynamical models (ordinary differential equations); modelling of diffusive processes (partial differential equations).

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra or equivalent.

Exclusions: Students may not enrol in this unit and MAS164 Fundamentals of Mathematics concurrently.

### **Mathematics and Numeracy in the Early Years (EDN462)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on the teaching and learning of mathematics and numeracy in early childhood; children aged birth to eight years. It encourages a diagnostic approach including noticing what children are doing and saying as they engage in playful activity as well as using diagnostic tasks in a more focused way. Particular attention is given to learning opportunities for mathematics and numeracy during play and the notion of intentional teaching across the early years' curriculum.

Lectures: 1 hour per week; workshops: 2 hours per week

It is anticipated that field trips to early childhood settings will be required for this unit.

Prerequisites: Enrolment in B1322 Early Childhood 0-8 (BEd), OR B1319 Early Childhood and Primary Teaching (BEd), OR B1319 Primary Teaching (BEd). Successful completion of BED150 Understanding Teachers' Work; successful completion of EDN114 Thinking Mathematically.

You will need to seek out a child with whom you can work over a period of time and as such you will need parent consent. A completed parent consent form (located at the end of the Unit Information document) will need to be submitted with your assignment. The child may be known to you, or alternatively you may seek to conduct fieldwork in an early childhood learning environment located in your community.

### **Mathematics and the Curriculum (Secondary) (Major) (EDN414)**

Credit Points: 4

MURDOCH: S1-external

This unit aims to assist the student teacher to develop competency with the planning and implementation skills associated with the teaching of a program of secondary mathematics. It is directed towards the development of the mathematical skills and problem-solving abilities of adolescents. This unit is not a mathematics unit; rather, it is about teaching mathematics.

Workshops/seminars: 2 x 1.5 hours per week.

Accessing online learning resources recommended through the LMS

Prerequisites: Successful completion of BED150/ EDN112/EDN1121 Understanding Teachers' Work OR EDU101/E101/EDU1011/E1011 Introduction to Teaching AND enrolment in a secondary teacher education course [BEd (Secondary) OR BEd (Secondary) (Graduate) OR GradDipEd (Secondary)].

Completion or near completion of a major in Mathematics. Students must have completed or currently be enrolled in EDN4101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary).

Students should be enrolled in BEd(Secondary)/BSc (Mathematics and Statistics) OR BEd (Secondary) (Graduate with Mathematics degree) and enrolled in EDU3161 School Experience: Secondary BEd for students taking this unit (EDN414) as a curriculum major. OR

Enrolment in EDN3101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary) and taking EDN314 as a curriculum minor. OR

Enrolment in EDU293 and EDU297 for students enrolled in the Graduate Diploma in Education (Secondary) and taking EDN414 as a curriculum major.

### Mathematics for Teaching (EDN110)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is designed for students who have not successfully and confidently completed Mathematics Essential to at least Year 12 level. It aims to further enhance their skill and understanding of critical mathematical concepts and processes needed to teach primary school mathematics and science. The content will address key elements of the upper primary to middle secondary Western Australian Curriculum: Mathematics, in particular the number and algebra; measurement and geometry; and statistics and probability strands.

Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week.

Prerequisites: Enrolment in an initial teacher education course.

Exclusions: Students who have successfully completed Mathematics Essential to at least Year 12 level or undergraduate mathematics units. Students who have successfully completed EDU162 Cultural Mathematics or EDN114 Thinking Mathematically may not enrol in this unit for credit.

If students fail EDN110 they cannot enrol in EDN114 Thinking Mathematically. If students fail EDN114 and have not already completed EDN110, then they must complete EDN110 before enrolling again in EDN114.

### Mathematics for Teaching Secondary (7-10) (MAS540)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit considers mathematics topics that are required for the teaching of the secondary mathematics curriculum in years 8 to 11. Topics include algebra; polynomials, exponential, logarithmic and sinusoidal functions and their graphs; linear equations and matrices; basic concepts of differential and integral calculus and applications. In addition to necessary concepts and skills, students will develop, through project work, an understanding of the history and real-world applications of selected topics, and how they can be presented effectively to a student audience.

Lectures: 4 x 1 hour per week; Tutorials: 1 x 1 hour per week.

Prerequisites: Enrolment in the Graduate Certificate in Education (Secondary Mathematics 7-10)

### Mathematics in the Primary Curriculum (EDN564)

Credit Points: 3

MURDOCH: ST4-internal, ST4-external

The focus is on the teaching and learning of the mathematics described in the Australian curriculum. Students will learn to develop ways to enact the curriculum within the primary school context. The unit will provide a platform for them to develop pedagogical content knowledge, including the different ways children learn mathematics. The development will enable students to prepare learning activities and building these activities into lesson plans. Further they will embed the plans within a year-long program which they will draft.

Workshops/seminars: 2 hours per week over 12 weeks.

Prerequisites: Enrolment in the Master of Teaching (Primary), and successful completion of, or co-enrolment in EDN5501 Transition to Teaching.

Exclusions: Student who have successfully completed EDN3331 Teaching Mathematics in Primary Schools or EDN351 Teaching Mathematics in Primary Schools may not enrol in this unit

### Meaning and Interpretation (PHL317)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit deals with central themes in contemporary philosophy of language, in both the analytic and phenomenological traditions. Questions addressed include: How do we make 'sense' of the world? How do we understand others? What counts as a language? Is 'language' necessary to make the world 'meaningful' for us? Can we think without words? What is the relation between thinking, talking and hearing? What is the relation between language and reality? Is it possible to understand what someone else says?

Lectures: 1 hour per week; Tutorial: 1.5 hours per week.

Prerequisites: Nil.

### Measurement and Uncertainty Analysis (ENG670)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal

This unit introduces students to the methods of quantitative measurement and analysis. Specifically, the ISO Guide to the Expression of Uncertainty in Measurement. After understanding the analysis techniques, students will then apply the techniques to a problem that is of industrial interest, significance and relevance. Students will need to specify test procedures, perform measurements and associated uncertainty analyses. The unit also serves as a preparation for the Engineering Masters Project.

Lecture/Workshop: 1 x 3 hours per week.

Prerequisites: Completion of at least 24 credit points of the Master of Engineering or permission of the Engineering Academic Chair.

### Media and the Curriculum (Major) (EDN415)

Credit Points: 4

Not available this year

This unit examines the study of media in the K-12 school curriculum, particularly as it applies to the learning areas of the Arts and English. Attention is given to how emerging technologies and theories of media might inform the teaching of media in primary and secondary classrooms. Students should expect to develop an increased understanding of, and expertise in, the use of effective strategies for the teaching of media.

Lectures/workshops: 4 hours per week.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Enrolment in a teacher education course [either BEd (Secondary) or BEd (Secondary) (Graduate) or GradDipEd (Secondary)]; successful completion of BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching.

Students should also be enrolled in EDN4101 Professional Experience: BEd Secondary for students enrolled in the Bachelor of Education (Secondary)/Bachelor of Media or Bachelor of Mass Communication or Bachelor of Communication or Bachelor of Education (Secondary) (Graduate), where taking this unit (EDN415) as a curriculum major.

OR

Enrolment in EDN2161/EDN514 Professional Experience: Secondary Graduate for students enrolled in the Graduate Diploma in Education (Secondary) and taking EDN415 as a curriculum major.

### Media Audiences and the Public (MCC236)

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit considers the contemporary media environment for audiences in terms of historical and newly developing traditions of audience analysis. It also examines theories that inform public and political communication, focusing specifically on the media-public dynamic. The unit draws on several disciplines, including mass communication, media studies, psychology, consumer behaviour, public opinion and cultural studies. The unit provides practical knowledge about how media audiences and publics are measured and develops basic proficiency in the practical skills of audience research.

Lectures: 1 hour per week; tutorials 1.5 hours per week.

Prerequisites: MCC108 Introduction to Communication and Media.

Exclusions: Students who have completed MSC236 Media Audiences are not eligible to enrol in this unit.

### Media Governance and the Public Sphere (CMS305)

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit focuses on media governance and its relations to the public sphere. It will examine policies and practices that govern and influence the media, public culture and the creative industries. Students will learn about key media regulatory issues - including community standards, ethics, norms, etiquettes, literacies - and understand how these enable and constrain a range of media, cultural and social practices globally. Topical case studies will be drawn from various global contexts for students to grasp policy discourses.

Lectures: 1 x 1 hour per week; 1 x 1.5 hours per week

Prerequisites: Completion of 24 points at Part II.

Exclusions: Students who have successfully completed MCC337 Cultural and Media Policy cannot enrol in this unit.

### Media Law and Ethics (JOU245)

Credit Points: 3

MURDOCH: S1-internal

All professional communicators need to be aware of their legal and ethical rights, obligations and responsibilities. This unit examines the laws affecting journalists, public relations practitioners and editors in Australia. It will engage students in the ethical issues that face communicators on the job on all media platforms.

Workshops: 24 hours contact time plus online content. (Perth, KAPLAN and Dubai)

Students will attend a public court and report on proceedings for assessment.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC245 Media Law and Ethics may not enrol in this unit for credit.

### Media Law and Ethics (MCC245)

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

All professional communicators need to be aware of their legal and ethical rights, obligations and responsibilities. This unit examines the laws affecting journalists, public relations practitioners and editors in Australia. It will engage students in the ethical issues that face communicators on the job, and consider the ethical issues for each of the communication professions.

Lectures: 1 hour twice a week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed JOU345 Media, Law and Ethics or JOU324 Journalism: Professional and Legal Frameworks may not enrol in this unit for credit.

### Media Projects (MCC312)

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit extends the practical, critical and research skills developed in media production units. It is designed for dedicated media makers who wish to (i) participate in a client or a tutor-directed project (ii) explore the conceptual possibilities of the visual medium in the context of a group production (iii) explore collaborative links with other communication and media majors and units. This unit is designed for students in their third full-time year of study.

Tutorials: 2.5 hours per week.

Prerequisites: MCC201 Professional Development in Screen Production if enrolled in Screen Production major; OR MCC267 Photo and Video Journalism if enrolled in Photography minor; OR MCC244 Radio Presenting and Producing if enrolled in Radio major; OR MCC214 Sound Production if enrolled in Sound major; OR completion of PHO124 Photography 1 and PHO203 Photography 2 if enrolled in the Photography major. Permission of the Unit Coordinator is required for enrolment.

### Media Projects (PHO312)

Credit Points: 3

MURDOCH: S2-internal

This unit extends the practical, critical and research skills developed in Photography production units. It is designed for dedicated image makers who wish to (i) participate in a client or a tutor-directed project (ii) explore the conceptual possibilities of the visual medium in the context of self-directed work (iii) explore collaborative links



with other community based client groups. This unit is designed for students in their third full-time year of study.

Tutorials: 2.5 hours per week.

Client based location photography shoot experiences, studio work.

Prerequisites: Completion of PHO124 Photography 1 and PHO203 Photography 2.

### Media Relations (MCC259)

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit explores the theory and practice of media relations through case studies, practical writing exercises and the development of a media relations campaign. Students learn how to work closely with the media, plan and evaluate media campaigns, prepare for interviews and press conferences, and write effective media releases, backgrounders and feature stories. In addition, students will explore the broader social role of media relations and its relationship with public relations.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### Media Relations (PRO259)

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit explores the theory and practice of organisational storytelling and develops writing and editing skills. Students learn to write for different purposes across different media., prepare for interviews and media conferences, and write effective media releases, backgrounders, and speeches. Students will also research and engage in social media.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC259 Media Relations cannot enrol for credit in this unit.

### Media, Culture and Politics in Indonesia (IND371)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines the dramatic changes that have taken place in Indonesia since 1945, with particular emphasis on the major figures, events and controversies that have shaped Indonesian politics and culture. Our sources include, Indonesia's vibrant popular culture, contemporary literature, print, electronic, and social media. We discuss key issues such as environmental destruction, the threat of terrorism, the role of the military, the challenges to democracy, the role of Islam in the State, and Indonesia's complex relationship with Australia.

Lecture: 1 x 1.5 hours per week; tutorial: 1 hour per week.

Prerequisites: Nil. No knowledge of Indonesian language is required.

Exclusions: Students who have successfully completed IND271 Media, Culture and Politics in Indonesia may not enrol in this unit for credit.

### Mediation (LLB397)

Credit Points: 3

MURDOCH: T3-internal (quota of 80 places)

Introduction to the knowledge and skills associated with mediation as it is practised in Australia including family law, commercial disputes, neighbourhood disputes and through court referrals. Examine the framework governing the practice of mediation and issues associated with its use such as privacy and confidentiality, power imbalances, mediator training and competency and the enforceability of mediated agreements. Develop communication and other skills necessary for participating in mediations, whether as a party, a representative of a party or as a mediator.

Workshops: 24 hours taught intensively over 1 week (taught in the study free week in S2)

Prerequisites: All Part 1 units in the LLB.

Exclusions: Students who have completed LAW307/LEG307/LEG397 Mediation may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to interactive teaching methods. No admission requirements; students will be accepted until the quota is full.

### Medical Immunology and Molecular Genetics (BMS211)

Credit Points: 3

MURDOCH: S2-internal

This unit will provide basic knowledge and practical skills in medical immunology together with molecular and medical genetics. Sections comprise features of the immune response in both health and disease, including an understanding of immunopathogenic mechanisms of disease. Emphasis is also given to the structure and functioning of genes and how this molecular knowledge is increasingly being applied to diagnosis and treatment. Includes a practical laboratory component and a written assignment on a selected topic within immunology.

Lectures: 36 x 1 hour; Laboratory practicals (includes pre-labs): 7 x 3 hours; Workshops: 3 x 1 hour.

Prerequisites: BIO152 Cell Biology/ Foundations of Cell and Molecular Biology.

Exclusions: Students who have successfully completed BIO252/BIO243 Immunology, Vaccines and Cell Culture, BMS265 Medical Immunology and Molecular Genetics, VET293/VET347 Veterinary Immunology and Molecular Genetics may not enrol in this unit for credit.

### Medical Microbiology (BMS212)

Credit Points: 3

MURDOCH: S1-internal

Basic knowledge and practical skills in microbiology relating to human and comparative animal infections, including sections on viruses, bacteria, mycoplasma, rickettsia, and chlamydia. Virology: introduction to classification of viruses, a description of structure, mode of replication, and discussion of selected human and zoonotic virus infections. Bacteriology: introduction to general features of pathogenic bacteria including structure, metabolism, genetics, culture and identification, with emphasis on mechanisms by which they cause disease and the principles of diagnosis and control.

Lectures: 3 hours per week; practicals: 3 hours per week.

On-line learning activities: 1 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed BMS203



Comparative and Human Microbiology may not enrol in this unit for credit.

For the purpose of progression in Biomedical Science, this unit is considered essential and not equivalent to BIO246 Microbiology. It incorporates a significant virology component that is not contained in BIO246. This unit is considered an important requisite for BMS314 Pathological Basis of Disease and BMS315 Advances in Medical Science and for all Biomedical Science graduates.

### Medicine 1 (VET625)

Credit Points: 3

Not available this year

This unit considers endocrinology, urinary tract diseases and medical neurology. The principle objective is for students to gain a deeper understanding of the pathophysiology associated with diseases of these organ systems and to use this knowledge to improve both diagnostic and treatment skills.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022), the Postgraduate Certificate in Veterinary Studies in Small Animal Practice (C1074), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### Medicine 2 (VET626)

Credit Points: 3

MURDOCH: S1-external

This unit incorporates the basic investigative techniques and pathophysiology of diseases of the respiratory and cardiovascular systems. Each body system is covered individually with a problem-oriented approach and common diseases are discussed in more depth. The more controversial topics and new treatment strategies available will also be highlighted and discussed. The main objective is to expand the base of knowledge required to accurately diagnose and treat commonly encountered problems in these body systems in general practice.

Prerequisites: Enrolment in the Master of Veterinary Studies (Small Animal Practice) (M1022), or the Graduate Certificate in Veterinary Studies in Small Animal Practice (C1074) the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### Medicine 3 (VET609)

Credit Points: 3

MURDOCH: S2-external

This unit teaches advanced concepts in small animal neurology and gastroenterology. The principle objective is for students to gain a deeper understanding of the pathophysiology associated with diseases of these organ systems and to use this knowledge to improve both diagnostic and treatment skills.

Prerequisites: Enrolment in Master of Veterinary Studies (Small Animal Practice) (M1022), the Graduate Certificate in Veterinary Studies in Small Animal Practice (C1074), the Master of Veterinary Clinical Studies (M1223), the Doctor of Veterinary Medical Science (D1061) or permission of the Academic Chair.

Exclusions: Students who have successfully completed VET625 Medicine 1 and VET626 Medicine 2 prior to 2014 may not enrol in

this unit for credit.

This unit is subject to quota. Quota is due to limited resources. Students must be enrolled in the College of Veterinary Medicine's graduate courses.

### Mental Health Issues In Chiropractic Care (CHI488)

Credit Points: 2

MURDOCH: T3-internal

This unit will explore the range of normal and abnormal psychological syndromes that are commonly presented in chiropractic practice. Students will learn to identify psychological syndromes with emphasis on information gathering, effective communication and the importance of appropriate referral. Evidence based treatments for the major problems will be explored.

Lectures: 2 hours per week.

Prerequisites: Completion of BSc (Chiropractic).

### Mental Health Issues in Chiropractic Care and Pharmacology (CHI466)

Credit Points: 3

Not available this year

This unit will provide an overview of the science and profession of psychology; the role of psychology in health care, and specifically, in chiropractic care. It will overview relevant psychological models of human behaviour, emphasising bio-psycho-social interactions. It will explore some of the range of normal and abnormal psychological presentations that might commonly be seen in chiropractic practice, focusing on information gathering, effective communication, identification, practitioner response and the importance of appropriate referral.

Lecture: 2 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1-4.

### Mentoring (EDN671)

Credit Points: 3

MURDOCH: UA4-internal  
DUBAI-ISC: TMD-internal

This unit explores conceptual issues and practical matters surrounding mentoring in various educational, community and workplace settings as a strategy relevant to all ages. Topics include: the concept of mentoring and assumptions underlying it; different models of mentoring and applications; essential elements of effective mentoring relationships and features of effective mentoring programs. Participants can focus on areas of interest: developing or implementing a mentoring program; enhancing knowledge and skills as a mentor; building partnerships in their community or workplace.

Murdoch: This unit is taught as a one-week intensive unit of 30 contact hours of lectures and workshops with self directed activities prior to and following the on-campus workshops.

Dubai: This unit is taught over a trimester with lectures, workshops and self-directed activities over 12 weeks.

Readings and Self-Directed Study: 120 hours over the teaching period.

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator.

Exclusions: EDU671 / EDN571 Mentoring

7

Murdoch: This unit is offered in an intensive mode, with classes running from 9:00 am to 3:00 pm Monday to Friday for one (generally the second week of the teaching period). Please check the LMS site to confirm details closer to commencement.

### Metabolic Rehabilitation (EXS502)

Credit Points: 3

MURDOCH: T2-internal

Lectures: 2 hours; laboratories/workshops: 2 hours

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys and completion of years 1-3.

Exclusions: Student who have successfully completed CHI551/EXS551 Metabolic Rehabilitation may not enrol in this unit for credit.

### Metabolic Rehabilitation (EXS551)

Credit Points: 2

MURDOCH: T2-internal

This unit will provide the student with an advanced understanding of metabolic assessment and metabolic rehabilitation techniques. The student will be provided advanced information concerning a metabolic disease and conditions that limit physical function. The learner will be provided with the necessary skills to devise a rehabilitation program for a range of individuals with metabolic disorders. This unit will cover the underpinning molecular alterations occurring in metabolic disease, treatment strategies including, lifestyle and pharmacological intervention as well as prevention strategies.

Lectures: 2 hours; laboratories/workshops: 2 hours.

Prerequisites: CHI227/EXS227/EXS302 Exercise Physiology 2, CHI208/EXS208/EXS203 Health, Fitness and Performance Assessment, CHI318/EXS318/EXS303 Exercise Programming and Prescription

Exclusions: Students who have successfully completed CHI551 Metabolic Rehabilitation may not enrol in this unit for credit.

### Metaphors of Mind (PHL209)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Can computers fall in love? Does our subjective experience matter? Are we mindless Zombies? Where is the mind? This unit traces the repeated discovery and loss of the mind by examining the historical trajectory of the mind-body problem as indelibly tied to the history of modern science which links minds to brains or computers. The unit discusses philosophical and psychological approaches to mind in the broader context of the development of the social sciences.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Internal students complete two 45-minute quizzes, one in mid-term, one at end of term; external students complete a final exam.

Prerequisites: Nil.

Exclusions: Students who have successfully completed PHL230 Theories of the Mind may not enrol in this unit for credit.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement.

### Microbiology (BIO246)

Credit Points: 3

MURDOCH: S1-internal

The unit provides an introduction to the biology of bacteria, viruses, and fungi with a strong emphasis on developing practical microbiology skills in the laboratory. The interaction of micro-organisms with the environment, human beings, plant and animals is a major focus of this unit. Topics: microbial morphology, taxonomy, culture and growth and genetics; microbes as saprophytes; soil microbiology; microbes as symbionts and as parasites; microbes and human disease; public health and epidemiology; applied microbiology (biological control, food production, antibiotics).

Lectures: 3 x 1 hour per week; laboratories: 4 hours per week.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

Exclusions: Students who have successfully competed BIO263/BIO246 Microbiology 1 cannot enrol in this unit for credit.

### Microeconomics A (BUS291)

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit provides knowledge and understanding of microeconomic theories and policies. Students are introduced to the important tools of microeconomic analysis. Topics covered include the neoclassical theories of demand and supply; choice under certainty, risk and uncertainty; the models of perfect competition, monopoly, oligopoly and monopolistic competition; basic elements of non-cooperative game theory. Applications of theory are considered throughout the unit. The unit requires good quantitative skills and critical thinking skills.

Workshops: 2 hours per teaching week for South Street campus Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS161 Introduction to Economics or BUS171 Foundations of Economics; BUS162 Economics in Society.

Exclusions: students who have successfully completed BUS261 Microeconomics A may not enrol in this unit for credit.

### Microeconomics B (BUS318)

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

BUS318 will assume the basic knowledge in Microeconomic Theory acquired in BUS 261/BUS291 and introduce students to more in-depth study of strategic interaction in microeconomic environments. These would include topics such as fundamentals of equilibrium behaviour with applications to the problem of commons, market structures, market leadership, theory of contests, cartels and market collusion, auctions, signalling in job markets and strategic information theory.

2 hours lecture; 1 hour tutorial

Tutorial commence week 2

Prerequisites: BUS261/BUS291 Microeconomics A

Exclusions: Students who have successfully completed BUS361 may not enrol in this unit for credit.

**Middle East Politics and Security (POL334)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers key issues in Middle East politics and security today. The first part addresses regional complexities in terms of people, society, politics and geopolitics. The second part examines nationalism; the emergence of the modern states; the origins of conflict; and debates around political change and reform, including the role of political Islam and the emergence of religious radicalism. The final part considers contemporary challenges: the Israeli-Palestinian conflict; 'war on terror'; Arab Spring; and rise of Daesh/Islamic State.

2.5 hour lecture/workshop held weekly. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Nil.

**Migration Law in Practice (LLM555)**

Credit Points: 3

MURDOCH: AU11-internal

This unit builds on the knowledge acquired in previous courses within the program by focusing on the practical skills needed by migration agents to conduct an effective and successful migration practice. These skills include information retrieval, research, advocacy and communication techniques. This unit aims to equip students with the skills needed to work as a registered migration agent in professional practice contexts.

Lectures: taught intensively over three weeks. Due to the nature of the offering of this unit, students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Enrolment in the Graduate Certificate in Australian Migration Law and Practice; successful completion of LLB502/LLM502 Australian Migration Law, LLB503/LLM503 Australian Visa System AND LLB504/LLM504 Visa Compliance, Cancellation and Review.

**Military Force and Counterterrorism (POL232)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

For many years, the professional military, as an institution that legitimately uses violence, has played at least three roles. It has protected states, waged wars in pursuit of the national interest, and helped maintain international order. In the recent past, major inter-state wars have disappeared, but unconventional conflicts, insurgencies, and terrorism have increased. This unit focuses on how the military responds to terrorist threats. It examines how Australia's national interests interact and how the military has become a counterterrorism tool.

Weekly 1.5 hour lecture, 1 hour tutorial.

Prerequisites: Nil.

**Mineral Processing I (ENG328)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to give students a solid understanding of the processes used in mineral processing unit operations covering sampling, comminution, particle sizing, concentration of minerals according to their physical properties, involving such properties as density, magnetism and electrical conductivity. Other areas

considered in this unit include ore sorting, process control, plant design and optimisation, and metallurgical accounting. We study a blend of theoretical and practical information for chemical and metallurgical engineers working in the mineral resources industry.

Lectures: 1 x 2 hours per week; Lecture/workshop: 1 x 2 hours per week; Laboratories: 1 x 2 hours per week.

Students may have opportunity to visit metallurgical plants near Perth.

Prerequisites: ENG202 Engineering Thermodynamics, ENG255 Chemical Process Kinetics, ENG201 Fluid Mechanics, ENG203 Heat and Mass Transfer and ENG205 Process Mineralogy.

**Mineral Processing II (ENG329)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides students with a sound basis in the concentration of minerals according to their surface characteristics, including the unit operations froth flotation, agglomeration and flocculation. It includes a substantial section on the dewatering of concentrates and tailings, involving flocculation, thickening, filtration, centrifuging, drying and tailings disposal unit operations. It is designed to develop a solid understanding of both the theoretical and practical aspects of the subject matter which chemical and metallurgical engineers need to apply in the minerals resources industry.

Lectures: 1 x 3 hours per week; laboratories: 1 x 3 hours per week

1-2 field trips to local mine sites. Students are required to write a brief report on their site visits.

Prerequisites: ENG202 Engineering Thermodynamics, ENG255 Chemical Process Kinetics, ENG201 Fluid Mechanics, ENG203 Heat and Mass Transfer and ENG205 Process Mineralogy.

**Mineralogy for Metallurgists (ENG565)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit draws upon principles of structural and chemical crystallography, and phase chemistry to develop a systematic study of minerals and materials as an introduction to process mineralogy. The mineralogy of the principal ores is illustrated and discussed. Practical work provides opportunities to develop skills in the techniques of mineral identification and analysis, information access and communication. Mineralogy plays an increasingly important role in extractive metallurgy as the ores mined today become more complex and of lower grade than in the past.

Lectures: 3 hours per week.

Prerequisites: Enrolment in G1034 Graduate Diploma in Extractive Metallurgy.

Exclusions: Students who have completed EXM556/EXM256/CHE256 Process Mineralogy or ENG205 Applied Mineralogy are not eligible to enrol in this unit for credit.

**Mining and Natural Resources Law (LLB335)**

Credit Points: 3

MURDOCH: S1-internal

This unit surveys the legal regimes that govern the allocation, management, and conservation of natural resources in Australia, with a particular focus on Western Australia. It examines the ownership and allocation of rights and interests in minerals and petroleum, as well as conservation and native title laws and their impact on resource projects. The unit also reviews legal regimes governing the management and conservation of water resources.

Lectures: 2 hours per week.

Prerequisites: Successful completion of all Part 1 units in the LLB

Exclusions: Students who have completed LAW335 Mining and Natural Resources Law may not enrol in this unit for credit.

### **Mining, Communities and Sustainability (COD505)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Increasingly the resource industry is investing time, business interest, sponsorship and staff to build their social license to operate. This unit is designed to provide an understanding of the range of business drivers that have led to resource industry involvement in community and sustainable development. It will introduce students to the emerging fields of community relations, community sponsorship, Indigenous affairs and sustainability.

5 x 6-hour workshops for on-campus students. Audio and video recordings of workshops, digital reports of workshop activities, PowerPoint presentations and online readings of online students.

Written Assignments, reading, viewing of practice examples and reflection on community development practice.

Prerequisites: Enrolment in graduate course of study.

### **Mixed Methods and Quantitative Research (EDN781)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

In this unit participants will examine the theory and practice of mixed methods and quantitative research, and learn how to design studies incorporating both qualitative and quantitative data sources. Topics will include the nature and purpose of mixed methods approaches, philosophical assumptions, strengths and limitations of mixed method designs and approaches to data analysis. Workshops will include the use of computer software in data analysis and interpretation of empirical results.

This unit is taught in weekly seminar sessions (including lecture, activities and group discussion) for total of 30 hours. External students will have access to the seminars through LMS and designated off campus activities.

Reading, activities and assignment work of about 120 hours.

This unit is taught in weekly seminar sessions (including lecture, activities and group discussion) for total of 30 hours. External students will have access to the seminars through LMS and designated off campus activities.

Prerequisites: EDU610 / EDU603 Introduction to Research for Educators OR permission of Unit Coordinator.

### **Mobile App and Interaction Design (IDD379)**

Credit Points: 3

MURDOCH: S1-internal

This unit explores the theory and practice of interaction and interface design in relation to web and mobile app devices. A range of interaction design theories and methods will be explored such as user experience design, goals centred design, prototyping, usability testing, information architecture and interface design.

Online lecture; Media laboratories: 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC379 Interaction Design may not enrol in this unit for credit.

### **Mobile Application Development (ICT376)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit focuses on mobile application development using mobile development techniques and environments. Topics covered include app life cycle; small device programming; platform architecture including Google Android, Apple iOS, and Microsoft Windows Phone; web applications for mobile; cross platform development.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour unsupervised).

Prerequisites: ICT286 Web and Mobile Computing; ICT159 Foundations of Programming or ICT102 Introduction to Computer Science.

Each student is expected to read the lecture notes and any recommended materials relevant to the topic each week. Students will be able to access unit information and learning materials through LMS. A list of relevant reference texts and resources will be provided. Students will also need to spend some time doing the lab exercises for that week. In addition each student needs to complete one assignment, one project and sits for the final examination.

### **Modelling and Simulation (MAS354)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit develops skills in mathematical modelling and simulation of various dynamic systems (taken from mechanical, thermal, process, biological, biomedical, economic, financial, stochastic and discrete event systems) and introduces control systems. Possible applications include vehicle vibrations, central heating, fisheries, epidemics, drug infusion, traffic and stock price models. Central to the unit is the practical use of the computer packages MATLAB and Simulink for the numerical solution and simulation of the systems.

Lectures: 3 x 1 hour per week; tutorials: 1 hour per week.

Prerequisites: MAS161 Calculus and Matrix Algebra OR MAS221/MAS208 Mathematical Modelling OR both MAS182 Applied Mathematics AND MAS167 Computational Mathematics/MAS162 Foundations of Discrete Mathematics

Exclusions: Students may not enrol in this unit and either of MAS164 Fundamentals of Mathematics or MAS182 Applied Mathematics concurrently. Students who previously successfully completed MAS375 Modelling and Simulation cannot enrol in this unit for credit.

### **Modelling the Environment (ENV684)**

Credit Points: 3

Not available this year

This unit develops concepts of modelling using the systems dynamics approach, a widely adopted approach to modelling. The unit focuses on the application of systems dynamics to areas such as natural resource management, applied ecology, earth's physical climate system, economics, etc. Students will learn to identify a key issue, conceptualize the later, and develop a system dynamics model to predict the consequences of actions and policies in environmental management. No prior knowledge or experience in modelling is required.

Lectures/workshops: 2 hours per week.

Prerequisites: Enrolment in Bachelor of Environmental Science or Graduate Diploma in Energy and the Environment or Master of Environmental Science.

Exclusions: Students who have previously completed

ENV330/ENV630 Special Topics in Environmental Science: Earth System Science or ENV614/684 Earth Systems Science may not enrol in this unit for credit.

### Modern Japan (HIS310)

Credit Points: 3

Not available this year

In this unit we analyse the critical social, political and economic changes in Japan from the 1850s through to the post-war period. Themes include crisis of the old society; process of 'modernisation from above' and its social costs; nature of Japanese imperialism; critics of the Japanese state and their fate; emergence of a modern culture in the 1920s; transition to the authoritarianism of the 1930s; the home-front during World War II; and the experience of post-war occupation.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed HIS210 Modern Japanese History may not enrol in this unit for credit.

### Modern Physics (PEN231)

Credit Points: 3

MURDOCH: S1-internal, S1-external

The aim of this unit is to study the basis of modern physics. Topics: special relativity, wave mechanics, introductory quantum theory including one and three dimensional systems, matter as particles and waves, light as particles and waves, the hydrogen atom and atomic structure. Students will be required to complete experimental activities during the unit.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week.  
External students: no attendance requirement.

There is no attendance requirement for external students.

Prerequisites: MAS161 Calculus and Matrix Algebra and PEC152/PEN152 Principles of Physics.

### Molecular Biology (BIO282)

Credit Points: 3

MURDOCH: S1-internal

The key knowledge covered in this unit is how genetic material is organised in the genome and how biological processes are regulated and controlled within cells. Key skills gained are gene analysis and cloning, computer analysis of DNA sequences, and reporting and interpretation of experimental results. The practical applications of molecular biology in medicine, agriculture, and environmental management are emphasised.

Lectures: 3 hours per week; 5 x 4-hour lab sessions; Workshop, 1 x 2-hour session; Computer workshops, 1 x 3-hour session and 1 x 2-hour session.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

Exclusions: Students who have successfully completed BIO316 Molecular Genetics may not take this unit for credit.

### Moral and Political Philosophy (PHL206)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Controversies about right and wrong, justice and injustice are rife in democratic societies. Enormous economic and social change, exponential advancement in technology, unprecedented freedom

of choice amid increasing inequalities create pressing concerns about how to make the most of our own lives and how we can best live together with other people, locally and globally. This unit explores philosophical responses to these issues in light of different understandings of ethical and political values, the good life, justice and virtue.

Lectures: 1 hour per week; tutorials: 1.5 hours per week

Prerequisites: Nil.

### Murdoch University International Bridging Unit (EQU013)

MURDOCH: UA4-internal, W1-internal

This unit provides an alternative entry pathway into Murdoch University for International students who have met the English Language requirements but have missed out on the academic entry requirements by a small margin. The unit offers an opportunity for you to develop the skills, knowledge and attributes necessary for successful undergraduate study in Australia. After you complete this unit, you will transition directly into your undergraduate standard entry course.

Lectures/seminars: 1 x 1 hour per day; tutorials: 1 x 1.5 hours per day; computer laboratory workshop: 1 x 2 hours per day. This is a 6-week intensive unit. As such, students are expected to attend five days per week, Monday - Friday. There will be an average of 4.5 contact hours per-day, totalling 22.5 contact hours per week and 135 hours for the course.

Prerequisites: This unit is only available to onshore international students who are aged 18 years or over and who are not studying Bachelor of Nursing, Bachelor of Engineering Honours, Bachelor of Laws, Bachelor of Science/Doctor of Veterinary Medicine, or any graduate-level course.

### Music Technology (SOU268)

Credit Points: 3

MURDOCH: S2-internal

A practical opportunity to develop music technology skills that can be applied in creative media, multimedia, screen and sound production. Topics include sampling, synthesis, loop-based composition, mixing and remixing. Historical and technological developments will be viewed along with the influence of pioneering artists and their work. Combining analysis and hands-on content creation, the emphasis is on creative skills and familiarity with the tools to create audio and musical content for various media.

Seminars: 8 x 1 hour; workshops: 12 x 2 hours

Online tutorial content.

Prerequisites: SOU101 Introduction to Audio Production or SOU214 Sound Production.

Exclusions: Students who have successfully completed MCC268 Music Technology may not enrol in this unit.

### Mysteries, Magic, and Myths (REL205)

Credit Points: 3

MURDOCH: S2-internal, S2-external

The ancient Mediterranean teemed with religious practices quite foreign to modern societies. Rulers were worshipped as gods; occult rituals promised immortality; philosophers claimed to be incarnate deities; magic was employed daily. This unit explores the various ways ancient Greeks and Romans interacted with the divine, including magic, gnostic speculation, mystery religions, visionary journeys, oracles, and more. We will study not only these religious phenomena, but also the ancients' own critical reflections on what they were doing.

Lectures: 2 hours per week.

Prerequisites: Nil.

### **Nations, Narratives, Cultures in Contemporary Asia (AST530)**

Credit Points: 3

Not available this year

This unit utilises narrative and biography/life writing to explore knowledge, culture, identity and nation in contemporary Asia. A range of narrative texts 'produced' in the Asian region will be read in conjunction with texts of a theoretical/critical nature and texts providing historical, social and political context.

Lectures/seminars: 2 hours per week.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) Asian Studies course or permission of the Unit Coordinator.

### **Native Title Law (LLB305)**

Credit Points: 3

Not available this year

This unit will include a comprehensive examination of native title law in Australia, including the precursors to the recognition of native title in Australia, the first formal recognition of native title in Mabo, the legislative response to native title, the Native Title Act 1993 (Cth), and the continuing development of the Native Title Act and case law.

Contact time: Lecture/seminar: 2 hours per week.

Prerequisites: Successful completion of BJU200 Researching Legal Remedies or BJU200 Research Methods for Law

Exclusions: Students who have completed LAW305 Native Title Law may not enrol in this unit for credit.

### **Nature-Based Tourism (ENV278)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Nature-based tourism relies on the natural environment. The importance of ecology for maintaining the natural environment on which nature-based tourism depends is overviewed. Planning frameworks for sustainable nature-based tourism, such as the Limits of Acceptable Change and the Tourism Optimisation Management Model, are explored and applied. This exploration is linked to gaining an appreciation of the impacts of nature-based tourism and how these can be managed. Interpretation is discussed as a key management element.

Workshops: there will be one introductory and then 7 formal workshops of 3 hours duration.

Field trips: 2 x 5 hours. One field trip to Penguin Island and Shoalwater Marine Park and one field trip to Yanchep National Park to understand the ecology, impacts, planning and management of nature-based tourism (5 hours each).

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV279 Nature-Based Tourism may not enrol in this unit for credit.

### **Network Design and Implementation (ICT291)**

Credit Points: 3

MURDOCH: S1-internal

This unit aims to extend a student's introductory data-communications knowledge to include technologies associated with enterprise networks such as redundancy, dynamic routing and access-control-list based security. There is a particular focus on LAN design and Ethernet switching concepts. These are explored at an advanced level. Laboratories begin with an introduction to the Cisco IOS operating system and focus on the practical implementation of network designs using commercial networking equipment and simulators.

Lectures: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: ICT169 Foundations of Data Communication OR ICT103 Introduction to Data Communications.

Exclusions: ICT363 Network Switching.

If you have been exempted from ICT169 or ICT103 on the basis of prior studies (EG TAFE) it is very important that you:

- \* Are familiar with the OSI model for data-communications.
- \* Are familiar with the operation of the Internet Protocol (IP) and Ethernet technologies.
- \* Understand the role of IP addresses, subnet masks and default gateways.
- \* Are able perform basic IP version 4 subnetting.
- \* Are familiar with the Spanning Tree Protocol (STP).

The greatest challenge for students taking ICT291 without adequate prerequisites, will be to catch up on the IP subnetting. If you feel that that your prior studies did not adequately cover the prerequisites, it is strongly recommended that you discuss the matter with the unit coordinator or your Academic Chair. Ideally you will take the unit ICT169 Introduction to Data Communications prior to enrolling in ICT291.

In combination with ICT169, ICT291 aims to meet the learning requirements needed to sit the CCNA (Cisco Certified Network Associate) industry certification exam. ICT291 is also aligned with many of the exam topics found in the CCNP (Cisco Certified Network Professional) SWITCH industry certification exam.

### **Network Security (ICT377)**

Credit Points: 3

MURDOCH: S1-internal

The unit examines current security threats to organisations and the necessary security processes required to mitigate these threats. Topics covered include: security policy design and management; security technologies, products and solutions, firewall and secure router design, installation, configuration and maintenance; AAA implementation using routers and firewalls; and virtual private networks.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: ICT120 Principles of Data Communications OR ICT291 Network Design and Implementation.

Exclusions: ICT362 Network Security.

### **Network Switching (ICT609)**

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on Local Area Network design and wired connectivity to end user devices at the edge of the Internet. Multilayer Ethernet switches are examined from the perspective of design, management and redundancy. Topics include VLANs, Inter VLAN routing, 802.1Q trunking, Spanning Tree Protocol, network security, quality of service and scalable design. Where appropriate,

topics in this unit are aligned with the Industry certification exam, CCNP - SWITCH.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT535 Advanced Business Data Communications; enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT663 Network Switching may not enrol in this unit for credit.

### Networking Group Project (ICT623)

Credit Points: 6

MURDOCH: S1-internal, S2-internal

Students will work in teams to undertake a real-world information technology project, applying skills and knowledge developed in their degree. Teams will analyse project requirements, evaluate and justify design decisions, and produce a substantial artefact. Project management and communication with clients and other stakeholders will be emphasised. Projects can be initiated from industry needs, University needs, or proposed by the student in consultation with a discipline academic. The project culminates with a public presentation of the project deliverables.

Workshops: 1 x 2 hours per week.

Prerequisites: ICT508 Information Technology Project Management and ICT521 IT Professional Practice, and a minimum of 24 points.

### Neuromuscular Rehabilitation (EXS503)

Credit Points: 3

MURDOCH: T2-internal

Lectures: 1 hour; laboratories: 2 hours

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys and completion of years 1-3.

Exclusions: Students who have successfully completed EXS553/CHI553 Neuromuscular Rehabilitation may not enrol in this unit for credit.

### Neuromuscular Rehabilitation (EXS553)

Credit Points: 2

MURDOCH: T2-internal

This unit will provide the student with an advanced understanding of neuromuscular assessment and neuromuscular rehabilitation techniques. The student will be provided advanced information concerning neuromuscular conditions and diseases that limit physical function. The learner will be provided with the necessary skills to devise a rehabilitation program for a range of individuals with neuromuscular disorders.

Lectures: 2 hours per week; laboratories/workshops: 2 hours per week.

Prerequisites: CHI225 Principles of Strength and Conditioning or EXS225/EXS103 Strength and Resistance Training; CHI208/EXS208/EXS203 Health, Fitness and Performance Assessment; EXS209 Biomechanics I or CHI209/EXS204/EXS2041 Biomechanics and Diagnostic Palpation Skills; and CHI328/EXS328/EXS306 Physical Assessment and Rehabilitation.

Exclusions: Students who have successfully completed CHI553 Neuromuscular Rehabilitation may not enrol in this unit for credit.

### Neuromusculoskeletal Rehabilitation in Overview (CHI680)

Credit Points: 4

Not available this year

This unit builds on the principles and practice of neuromusculoskeletal rehabilitation taught in CHI681. The principles of developmental kinesiology will be explored further and the facilitation of muscular agonist-antagonist co-activation by reflex stimulation methods and exercise will be highlighted. Advanced approaches to the assessment and management of muscle imbalance will also be explored. Contemporary methods of assessing therapeutic outcomes in the clinical setting and an introduction to clinical epidemiology and critical reasoning will be presented.

External.

Prerequisites: Completion of Chiropractic degree or equivalent; CHI681 Principles and Practice of Neuromusculoskeletal Rehabilitation; CHI682 Neuromusculoskeletal Rehabilitation of the Lower Body; and CHI683 Neuromusculoskeletal Rehabilitation of the Upper Body.

### Neuromusculoskeletal Rehabilitation of the Lower Body (CHI682)

Credit Points: 4

Not available this year

The principles and practice of neuromusculoskeletal rehabilitation for the lower body are presented in a practical, experiential manner with emphasis on active care including topics on functional stability training, functional integrative training and therapeutics for the lumbar spine based on responses to spinal loading. The development and utilisation of the clinical audit is highlighted.

External.

Prerequisites: Enrolment in the Master of Sports Science, Postgraduate Certificate in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Neuromusculoskeletal Rehabilitation, or with the permission of the Academic Chair.

### Neuromusculoskeletal Rehabilitation of the Lower Body II (CHI684)

Credit Points: 4

Not available this year

Builds on the principles and practice of neuromusculoskeletal rehabilitation for the lower body taught in CHI682. Develop an advanced level of functional assessment of the lower body. Motor systems incorporating local and global stability dysfunction will be investigated and strategies to manage the dysfunction will be explored. Other clinical approaches will include the examination and management of syndromes resulting from adverse neural tension in the lower limbs and mobilisation and relaxation techniques for pain of spinal origin (lumbar and pelvis).

External.

Prerequisites: Enrolment in the Master of Sports Science, Postgraduate Certificate in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Neuromusculoskeletal Rehabilitation, or with the permission of the Academic Chair.

### Neuromusculoskeletal Rehabilitation of the Upper Body (CHI683)

Credit Points: 4

Not available this year

The principles and practice of neuromusculoskeletal rehabilitation for the upper body are presented in a practical, experiential manner with emphasis on active care including topics on functional stability training, functional integrative training, mobilisation and relaxation techniques for pain of spinal origin (head and neck) and therapeutics for the cervico-thoracic spine based on responses to spinal loading. The development and utilisation of the clinical audit is highlighted.

External.

Prerequisites: Enrolment in the Master of Sports Science, Postgraduate Certificate in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Neuromusculoskeletal Rehabilitation, or with the permission of the Academic Chair.

### Neuromusculoskeletal Rehabilitation of the Upper Body II (CHI685)

Credit Points: 4

Not available this year

Builds on the principles and practice of neuromusculoskeletal rehabilitation for the upper body taught in CHI683. Develop an advanced level of functional assessment of the upper body. Motor systems incorporating local and global stability dysfunction will be investigated and strategies to manage the dysfunction will be explored. Other clinical approaches will include the examination and management of syndromes resulting from adverse neural tension in the upper limbs and, mobilisation and relaxation techniques for pain of spinal origin (thorax).

External.

Prerequisites: Enrolment in the Master of Sports Science, Postgraduate Certificate in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Neuromusculoskeletal Rehabilitation, or with the permission of the Academic Chair.

### New Colombo Plan Agricultural China Study Tour (ANS301)

Credit Points: 3

MURDOCH: S2N-internal

This short-term study tour in China will examine various aspects of the agricultural value chain from animal production, animal and food processing, to different dryland and irrigated agricultural farming systems. Activities will include visits to farms and production facilities and research sites. These will be interspersed with presentations from experts from three of China's foremost agricultural universities, engagement with industry partners, and a range of additional activities including basic language training, and visits to key cultural facilities.

Prerequisites: Permission of Unit Coordinator

### New Testament Exegesis: Gospels (THE621)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit offers a detailed engagement with Paul's Epistle to the Romans. None of Paul's letters has had a more dramatic role in subsequent theological reflection than Romans. Controversies over how to interpret key passages have been central to major turning points in the history of Christianity, and the last 50 years of scholarship has witnessed a revolution in approaches.

Seminars: 1 x 2 hours per week.

Prerequisites: Enrolment in graduate-level study. THE507 Introduction to the New Testament.

### New Testament Greek I (REL209)

Credit Points: 3

Not available this year

This unit introduces students to the major features of Hellenistic Greek as reflected in the writings of the New Testament. On completion of this unit students should be able to recognise the more common grammatical structures and vocabulary of the language of the New Testament.

Workshops: 2 x 2 hours per week.

There are weekly take-home exercises in translation and grammar. Students do a variety of non-tabled activities such as use of their memory cards (or 'Apps' such as 'Flash Greek' which do the same task) and 'take-home' exercises. Students also follow aural English readings of the New Testament while visually reading the same passage in their Greek New Testaments.

Prerequisites: Nil.

### New Testament Greek II (REL210)

Credit Points: 3

Not available this year

This unit completes the student's introduction to New Testament Greek, provides practice in translation of selected passages and an introduction to New Testament textual criticism. On completion, students should be able to read the New Testament in Greek with the assistance of standard aids.

Workshops: 2 x 2 hours per week

There are weekly take-home exercises in translation and grammar. Students do a variety of non-tabled activities such as use of their memory cards (or 'Apps' such as 'Flash Greek' which do the same task) and 'take-home' exercises. Students also follow aural English readings of the New Testament while visually reading the same passage in their Greek New Testaments.

Prerequisites: THE103 New Testament Greek I or REL209 New Testament Greek I.

Exclusions: Students who have successfully completed THE203 New Testament Greek II may not enrol in this unit for credit.

### Newsroom (MCC323)

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit involves advanced news writing for publication. Students will work in the on-campus newsroom to produce stories for Murdoch's online news service The Murdoch Independent.

Workshops: 2 hours per week in first six weeks; additional production time rostered in the newsroom.

Prerequisites: MCC267 Photo and Video Journalism and MCC240 Politics, Journalism and Society and MCC217 Web News Production AND MCC245 Media Law and Ethics (may be studied concurrently); or permission from the Unit Coordinator.

Exclusions: Students who have successfully completed JOU323 Print News may not enrol in this unit for credit.



**Next Life (FDN107)**

Credit Points: 3

DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

Can you remember a time before Google, Facebook, YouTube, mobile phones? Think how previous generations lived. You will soon be the next generation, and technologies not yet invented will affect your life. Will you be prepared for your 'next life' - or left behind? This unit asks: (1) How are interactions with technologies shaping our social and personal lives? (2) How are technologies empowering/disempowering individuals and communities? (3) How is knowledge changing? (4) How is society remaking itself?

Lectures: 2 hours per week; tutorials: 2 hours per week.

Prerequisites: Nil.

**Ngoolark Special Project 1 (KAC101)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This repeatable unit provides you with structured study support for your first year units. It includes a self-directed learning plan and one to one coaching, designed to maximize your opportunity for success the units you are taking. You will also develop skills for lifelong learning, such as help-seeking, planning, time management, responding to feedback and problem-solving. All assessments and learning experiences complement the assessment and curriculum of the credit-bearing units you are taking in a given semester.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering or undertaking undergraduate studies.

A result of Ungraded Pass or Fail is awarded for this unit.

**Ngoolark Special Project 2 (KAC201)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This repeatable study project unit allows you to maximize your chance of success in the credit-bearing units you are taking. It includes a self-directed learning plan, designed in consultation with your tutor and one to one coaching. You will develop academic skills, such as critical and creative thinking, self-reflection, self-knowledge, effective time management and problem solving. All assessments and learning experiences complement the assessment and curriculum of the credit-bearing units you are taking in a given semester.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering or undertaking undergraduate studies.

A result of Ungraded Pass or Fail is awarded for this unit.

**Numeracy and Learning (EDN562)**

Credit Points: 3

MURDOCH: ST3-internal, ST3-external

The focus is on numeracy, what it means and how to help children learn it. We explore numeracy through 'everyday' tasks from two approaches - one from a broad-societal perspective and the other from the teaching-learning nexus. For the former, issues include definitions of numeracy and what it means to be numerate in an increasingly technological society. As we develop some knowledge and understanding, we explore how we can enhance the teaching and learning of numeracy within the school context.

Workshops/seminars: 2 hours per week over 10 weeks.

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of EDN5501 Transition to Teaching and EDN561 Learners and Learning Environments.

**Nursing Management of Chronic Illness (NUR364)**

Credit Points: 4

MANDURAH: S1N-internal

This unit further develops students' ability to provide care for people with chronic illnesses. The psychosocial impact of chronic illness for individuals and the community, the impact on patient lifestyle choices and emerging trends in the management of chronic illness is highlighted. Narrative techniques are used to explore the management of symptoms in a range of chronic illnesses including diabetes, arthritis, cardiac and pulmonary diseases, palliative and wound care, renal and mental illness. End-of-life care issues are discussed.

Lectures: 1 hour per week; laboratories: 2 hours per week.

Prerequisites: Completion of all first and second year nursing units.

**Nurturing Creativity in the Early Years (EDN168)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

In this unit students will develop knowledge and skills regarding the learning and teaching of all the Arts Learning Areas of the Australian Curriculum with particular reference to children aged 0-3. In particular there will be a focus on integrating The Arts with other curriculum areas.

Students will also critically examine the role of the Arts in children's lives and ways in which The Arts can support children from culturally and linguistically diverse backgrounds.

1 x 1 hour lecture

1 x 2 hour workshop

Prerequisites: Nil.

**Oceanography and Marine Pollution (ENV244)**

Credit Points: 3

MURDOCH: S2-internal (quota of 50 places)

The first half of this unit discusses the physical and chemical properties of sea water, oceanic circulation, coastal bathymetry, currents, tides, waves, storms, surges and oceanic measurements along with pollution transport and diffusion. This underpins an examination of a theoretical background to natural ecosystem processes and pollution effects in the marine system in the latter half of the unit. Topics: eutrophication, thermal effluent and sediment, oil, metals and halogenated hydrocarbons. Field work provides students with the opportunity to undertake practical oceanographic sampling.

Lectures: 2 hours per week; laboratory classes: 9 x 3 hours; 1 boat trip: ~ 3 hours, 2 field collection trips (2 x ~3 hours).

Students take part in a number of field trips that support and are integral to the laboratory experience that are used to underpin the theoretical components of this unit. These include: a boat trip, sediment sampling and collection of algae.

Prerequisites: BIO103 Environmental Biology/Introduction to Environmental Biology or BIO180 Introduction to Marine Biology; ENV213/ENV242 Atmospheric Science; and PEC144 Chemical Principles/CHE144 Foundations of Chemistry.

Exclusions: Students who have successfully completed ENV204 Principles of Oceanography and Marine Pollution or ENV282 Oceanography and Marine Pollution may not enrol in this unit for credit.

This unit is subject to quota. Quota is due to occupational health and safety limits on boat numbers and limited laboratory space. Selection is based on academic achievement in ENV213/ENV242

Atmospheric Science.

### **Oil and Gas Law (LLB392)**

Credit Points: 3

MURDOCH: SP23-internal

This unit provides students with an overview of all aspects of upstream petroleum activities, including licensing, exploration and production, safety, environmental requirements and well integrity. It will provide a comparative study of the main developed licensing and concession regimes, and will incorporate examples from Australia, UK, Norway, USA and Canada. At the unit conclusion, students will be familiar with how petroleum activities are regulated in these countries, and the structure and function of the legal frameworks that regulate these activities.

Lectures: 24 hours taught intensively in the Winter break

Prerequisites: Successful completion of all Part 1 units in the LLB, and LLB260/LAW260 Contract Law.

Exclusions: Students who have successfully completed LAW3002 Special Topics in Law: Oil and Gas Law or LAW392 Oil and Gas Law may not enrol in this unit for credit.

### **Old Media, New Media (CMS202)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This unit traces the ongoing transformation of media forms in contemporary culture, and critically interprets the 'new' in new and interactive media against the backdrop of 'old' media culture. Students will be introduced to established ideas in media theory, and consider how they might be applied (or not) to newer media platforms and interfaces. The unit will also consider current concepts and perspectives that are concerned with emerging media modalities, such as mobile media, participatory media, social media and gamification.

Lectures: 1 hour/week; tutorials: 1.5 hours/week.

Prerequisites: CMS101 Introduction to Media Studies

### **Old Testament Exegesis (THE620)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides detailed study of major blocks of material from the Old Testament, enabling students to develop skills in a variety of exegetical approaches, while examining literary, historical, sociological and theological features. There will be opportunity to use Biblical Hebrew, but ability to read Hebrew is not essential and is not part of the assessment. This unit may be taken more than once, with different content.

Seminars: 2 hours per week.

Prerequisites: THE506 Introduction to the Old Testament.

### **One Health (VET392)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces the concept of one health highlighting the connection of animal and human health to the environment and biodiversity. Principles of veterinary and public health, biosecurity, food security, risk assessment and epidemiology will be covered in relation to wild and domesticated animals, humans and the environment. Practical classes will introduce students to core clinical skills involved in consultation, diagnosis and problem-solving, along

with the practical concepts of veterinary public health and its role in food safety and biosecurity.

Lectures: 3 x 1 hour per week; Workshops: 1 hour per week;

Practicals: 1 x 3 hours per week

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; or BSc (Animal Health).

Successful completion of VET272 Comparative Mammalian Biochemistry, VET211 Principles of Infectious Disease I - Veterinary Microbiology and VET 278 Principles of Infectious Disease II - Veterinary Parasitology; and EITHER VET375 - Processes in Animal Disease OR ANS313 - Pathology and Disease of Production Animals.

### **One Health Management and Leadership (VET655)**

Credit Points: 3

MURDOCH: S1-external

This Unit introduces the principles and applications of the One Health approach in both the public health and veterinary domains. The Unit will emphasise the concept of cross-sectoral cooperation for improved management of health threats at the human, animal and ecosystem interface. International case studies on emerging zoonotic disease burden, management of food chain safety and antimicrobial resistance will be used to guide the students' learning experience.

Online only, no attendance.

Prerequisites: Enrolment in Master of Health Policy and Leadership or Master of Health Administration, Policy and Leadership.

### **One Health: Wildlife Perspectives (VET603)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces students to the growth field of One Health with an emphasis on the role of, and impacts on, wildlife health. The unit will explore a range of issues related to the integration of wildlife and domestic animal health, environmental health and public health, and the implications for conservation projects. Topics and case studies will explore these complex interrelationships with a focus on the role of wildlife health in global health outcomes and the need for interdisciplinary approaches.

Tutorials: 1 x 2 hours per week for internal students

Online discussions and lectures for external students.

Online discussions and lectures for external students.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

### **Online and Mobile Journalism (JOU217)**

Credit Points: 3

MURDOCH: S2-internal

This unit will prepare students for work in an online newsroom. Students will research, write and edit news stories, upload them to a Content Management System and produce appropriate social media content to promote their material.

Lectures: 1.5 hour workshop a week (from week 2); three 2 hour seminars. (Perth and Dubai)

Workshops: 24 hours contact time plus online content. (KAPLAN)

Students will be required to carry out independent research and interviews, and record sound and visual images in the community.

Prerequisites: JOU104 Introduction to Journalism AND IDD129 Digital Media Skills. Highly recommended: MCC245 Media Law and Ethics (JOU245 Media Law and Ethics)

Exclusions: Students who have successfully completed MCC217 Web News Production may not enrol in this unit for credit.

### OnTrack (EQUo6o)

MURDOCH: S1-internal, S2-internal  
MANDURAH: S1-internal, S2-internal  
ROCKINGHAM: S1-internal, S2-internal

OnTrack is a 14-week university preparation course that assists you to gain entry into a wide range of undergraduate degrees at Murdoch University.

OnTrack will provide you with:

- \* A supportive, adult learning environment in which to develop effective study habits and learning strategies
- \* The tuition you need to develop your academic skills, knowledge and understandings to an undergraduate level
- \* Assistance to explore an undergraduate degree program that matches your aspirations.
- \* A network of peer and academic support at Murdoch University

Lectures/tutorials: full-time, minimum 3 days per week. Additional workshops for students requiring support for language development and computing skills.

Prerequisites: Enrolment in the OnTrack course.

### OnTrack Sprint (EQUo7o)

MURDOCH: SB7-internal

OnTrack Sprint is an intensive 4-week preparation course that allows you to gain direct entry into any undergraduate degree at Murdoch University that has an indicative ATAR of 70 or less.

OnTrack Sprint will provide you with:

- \* A supportive, adult learning environment in which to fine tune your study habits and learning strategies
- \* The tuition you need to boost your academic skills, knowledge and understandings to an undergraduate level
- \* A network of peer and academic support at Murdoch University

Lectures: 8 x 1 hour; tutorials: 40 x 1 hour; workshops: 4 x 1 hour.

Prerequisites: Enrolment in OnTrack Sprint Enabling program

### Operating Systems and Systems Programming (ICT31o)

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit aims to provide an understanding of the design and implementation of modern operating systems and how they provide an interface to computer hardware resources. It also covers the use of operating systems service routines to construct efficient systems programs. Topics include: process management, memory management, mechanisms for interprocess communications, file systems and protections, network programming using sockets and the UNIX system call interface.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hour per week (1 hour unsupervised); plus optional clinics.

Prerequisites: ICT104 Principles of Computer Science and ICT106 Fundamentals of Computer Systems. Students are encouraged to complete ICT209 Data Structures and Abstractions before taking this unit.

### Operating Systems and Systems Programming (ICT374)

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit aims to provide an understanding of the design and implementation of modern operating systems and how they provide an interface to computer hardware resources. It also covers the use of operating systems service routines to construct efficient systems programs. Topics include: process management, memory management, mechanisms for interprocess communications, file systems and protections, network programming using sockets and the UNIX system call interface.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour unsupervised); optional clinics.

Prerequisites: ICT283/ICT209 Data Structures and Abstractions.

### Opportunities with e-learning (EDN575)

Credit Points: 3

MURDOCH: W-internal (quota of 30 places)

Emerging technologies such as blogs, podcasts, and mobile technologies are changing the educational technology landscape and generating new opportunities and challenges for learning. Instructors across educational sectors are exploring and sharing innovative ways to use technology to foster interaction, collaboration, and increased excitement for learning. This unit invites participants to engage with the pedagogical issues facing educators in the e-learning environment, reflect on their practices and develop strategies for effectively integrating new technologies at their own institutions.

Intensive Mode Teaching involving Seminars/Lectures each day from 9:00 am - 4:00 pm will take place in the second week of the Winter teaching period. Dates and venue will be confirmed on the Unit LMS prior to commencement.

- \* Online component will start a week prior to the IMT and will involve readings and preparation)
- \* Intensive Mode Teaching (IMT) will take place during the second week of the Winter Teaching period from 9:00am-4:00pm, and be followed by 2 weeks of online interactions. The final assessment is due at the end of the teaching period.

Prerequisites: Enrolment in a graduate course.

Students will be required to bring iPad or Laptop.

This unit is subject to quota. Quota is due to limited resources and capacity to support students in workshops. Preference will be given to Education students; non-Education students are to seek permission of Unit Coordinator.

### Organic and Biological Chemistry I (CHE2o5)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will enable students to develop understanding of the properties of organic and biological compounds at the molecular level. The content will support learning in disciplines where an understanding of organic and biological compounds is important, such as: biological, veterinary, environmental, and forensic sciences. This unit introduces concepts and techniques used to identify the structure and reactivity of organic compounds. The chemistry of various biological molecules is also examined, as well as an introduction to bioinorganic chemistry.

Lectures: 1 x 2 hours per week; laboratories: 1 x 4 hours per week. Up to 5 days intensive laboratory/workshop activities for external students.



External students are advised that they will be required to do up to 5 days intensive laboratory/workshop activities on campus.

Prerequisites: CHE145 Introduction to Chemical Concepts AND CHE144 Foundations of Chemistry.

Exclusions: CHE238 Organic Structures and Reactivity

### Organic and Biological Chemistry II (CHE308)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit extends on concepts introduced in CHE205 Organic and Biological Chemistry I. As well as being a core unit for the Chemistry major, the content will also support learning in disciplines where an understanding of organic and biological compounds is important, such as: biological, veterinary, and environmental sciences. Topics include the design and synthesis of organic compounds, stereochemistry, radical chemistry and aspects of medicinal chemistry.

Lectures: 1 x 2 hours per week; laboratories: 1 x 4 hours per week. Up to 5 days intensive laboratory/seminar activities for external students.

Prerequisites: CHE205 Organic and Biological Chemistry I.

External students are advised that they will be required to complete up to 5 days intensive laboratory/seminar activities on campus.

### Organisation Development and Change (BUS298)

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

This unit introduces students to various concepts of organisational change and development. It covers topics including: theories of organisational development, organisational change and organisational transformation; the role of the organisational change practitioner; development of change interventions; employee responses to change; and challenges of change. The unit focusses on problem diagnosis and overviews various interventions that can be applied.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS145 Principles of Management or BUS176 Foundations of Management and Governance

Exclusions: Students who have successfully completed BUS240 Organisation Development and Human Resources Management may not enrol in this unit for credit.

### Organisation Development and Human Resources Management (BUS240)

Credit Points: 4

DUBAI-ISC: TMD-internal

BUS240 explores the choices organisations have for assisting employees to work effectively and adapt to change including the role human resource management plays in organisation development. Individual, team, HRM, and strategic concepts are linked to the strategies and processes organisations and individuals use to promote organisational citizenship throughout change. Students will develop practical skills for operating in organisations via management processes such as analysing organisational problems, organisation development interventions, managing meetings, facilitating group processes, problem solving, and managing projects.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: BUS145 Principles of Management or BUS176 Foundations of Management and Governance.

Exclusions: Students who have successfully completed BUS298 Organisation Development and Change may not enrol in this unit for credit.

### Organisation of Work (PSY552)

Credit Points: 3

MURDOCH: S2-internal

This unit aims to develop the student's understanding of the theoretical components behind the organisational, social, cognitive, and behavioural dimensions of work and the workplace. This unit covers topics such as motivation, satisfaction and commitment, team and group processes, leadership, power and decision-making, organisational change and its management, and organisational learning. The instructional content of the unit and the evaluation components reflect an evidence-informed approach to practice within an organisational context.

Seminars: 12 x 2 hour sessions throughout the semester.

Online discussion activities will be available via the unit's LMS site.

Prerequisites: Enrolment in PgCertOHR or GradCertHRS, or PgDipConsultPsych or GradDipConsultPsych, or MAppPsych or MAppPsych/PhD or DPsych, or with the permission of the Academic Chair.

### Organisational Behaviour and Management (MBS5082)

As for MBS538 except:

Credit Points: 3

MURDOCH: SUM-internal, U2-internal, U2-external, W-internal, W-external

Seminars: South Street Murdoch 3 x 2.5 hours per week during the teaching semester.

Students will have an opportunity to visit a business incubator.

Prerequisites: Enrolment in C1083 Postgraduate Certificate in Business Administration (MasterClass) or C1115 Graduate Certificate in Business Administration (MasterClass).

Exclusions: Students who have successfully completed MBS508 Organisational Behaviour and Management or MBS538 Organisational Behaviour and Management may not enrol in this unit for credit

### Organisational Behaviour and Management (MBS538)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

DUBAI-ISC: TJD-internal, TMD-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces students to concepts and theories of organisational behaviour useful to managers. The unit considers behavioural impacts at the individual, group and organisational levels. The focus is on helping students to understand themselves and how they could operate today and in the future in management contexts within a globalised world. The unit uses practical, problem-solving and experiential activities to explore organisational behaviour and challenges for managers, individuals and interactions in organisations, organisational dynamics, and organisational processes and characteristics.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS508 Organisational Behaviour and Management or MBS5082 Organisational Behaviour and Management may not enrol in this unit for credit

### **Organisational Change, Management and Consultancy (MBS568)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

This unit focuses on the role of the consultant or change agent (internal and external) and the applications and limitations of established change consulting approaches in different contexts. Broad approaches or planned interventions explored include: Organisational Development (OD); Organisational Transformation (OT); HR Interventions; Knowledge Management and Organisational Learning, ICT implementation and Business Process Re-engineering (BPR).

Workshops: 2 hours per teaching week for South Street Campus  
Workshops: 4 hours per fortnight at Kaplan SGP

The team based organisational consultancy or applied research based, in class or online multimedia presentations are integral to the learning process, offering students insights into organisational change processes in a wide range of organisational contexts.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS648/MBS548 Organisational Change, Management and Consultancy may not enrol in this unit for credit.

### **Organisational Psychology: Practicum I (PSY570)**

Credit Points: 3

MURDOCH: S2-internal

This unit focuses on practical application of organisational psychology to real organisational issues and the acquisition of critical skills and knowledge. In this unit, students will complete a 2-day workshop on Hogan assessment instruments, which will give them accreditation in the use of Hogan measures. They will then complete required readings that will prepare them for the Case Study workshops. Students will present a group response to the case study and subsequent individual reports.

Practical placements: 1 day per week (inclusive of non-teaching periods).

Workshop pre-reading and online blended learning content.

Prerequisites: Enrolment in MAppPsych, DPsych or MAppPsych/PhD; OR Enrolment in Postgraduate/Graduate Diploma in Consultancy Psychology where candidate holds a four-year Psychology qualification or equivalent; Provisional Registration as a Psychologist with Psychology Board of Australia.

Students must achieve a pass in all assignments in order to complete this unit.

### **Organisational Psychology: Practicum II (PSY603)**

Credit Points: 12

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, Y-placement

Students must complete practical placements in agencies and organisations appropriate to the organisational psychology specialisation. Students will be advised to select placements that will meet APAC and Registration Board requirements. Students will also attend seminars on professional, practical and methodological

issues.

15 X 3-hour seminar classes spread evenly over the year from week 1 of S1 to early November. Timetabled concurrently with PSY603/PSY701/PSY702

Practical placements: 120 days total

Prerequisites: Enrolment in MAppPsych (Organisational only) or MAppPsych (Organisational)/PhD; Provisional Registration as a Psychologist with Psychology Board of Australia. Completion of the 1st year of the MAppPsych (Organisational) unless approved by UC and Academic Chair.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Organisational Theory and Behaviour (BUS223)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit provides a basic understanding of individual and group behaviour in organisations, as well as exploring some organisational theories and management processes. Topics include: individual dimensions of behaviour -- personality, perception and learning, communication and motivation; groups and interpersonal influence -- structure, values, interaction and leadership; and organisational issues such as structure, processes, design, decision making; organisational change and development. Globalisation and sustainability are embedded into this unit as recurring themes.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: BUS145 Principles of Management or BUS176 Foundations of Management and Governance or PSY217 Psychology: Work and Organisations.

Exclusions: Students who have completed BUS293 Organisational Theory and Behaviour may not enrol in this unit for credit.

### **Organisational Theory and Behaviour (BUS293)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit provides a basic understanding of individual and group behaviour in organisations, as well as exploring some organisational theories and management processes. Topics include: individual dimensions of behaviour -- personality, perception and learning, communication and motivation; groups and interpersonal influence -- structure, values, interaction and leadership; and organisational issues such as structure, processes, design, decision making; organisational change and development. Globalisation and sustainability are embedded into this unit as recurring themes.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS145 Principles of Management or BUS176 Foundations of Management and Governance or PSY217 Psychology: Work and Organisations.

Exclusions: Students who have successfully completed BUS223 Organisational Theory and Behaviour may not enrol in this unit for credit.

### **Orientation Chemistry 1 (EQU011)**

MURDOCH: S1-internal

This unit is an introduction to the study of chemistry. The basic concepts of chemistry and basic calculations of molecular mass and the mole concept are covered including reaction equations and stoichiometry.

7

Lectures/tutorials: 3 hours per week; laboratories: six two-hour sessions.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary or Biomedical Science through the Waardong program, or by permission from the Academic Chair.

### Orientation Chemistry 2 (EQU012)

MURDOCH: S2-internal

This unit builds upon the basic chemical knowledge gained for EQU011 Orientation Chemistry 1 to cover concepts such as equilibrium reactions, redox reactions, acids and bases and a basic investigation of organic chemistry.

Lectures/tutorials: 3 hours per week; laboratories: six two-hour sessions.

Prerequisites: EQU011 Orientation Chemistry 1. This unit is restricted to Aboriginal and Torres Strait Islander students who entered Veterinary Science through the Waardong program, or by permission of the Academic Chair.

### Overseas Aid and International Development (SUS207)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Why is aid and development important? How can we make it more effective? What are the differences between humanitarian emergency responses and long term development? How can we encourage people to take ownership for their own sustainable development? What are the barriers to this for them and us? This course aims to give a historical and philosophical grounding to respond to these questions along with practical skills to work in a development context.

Lectures: 3 one-hour lectures in Week 1  
Workshops: 7 x 3 hours

Prerequisites: Nil.

Exclusions: Students who have completed STP204 Overseas Aid and Development or SUS204 Overseas Aid and Development cannot take this unit for credit.

### Parasitology: People, Pets and Wildlife (BMS316)

Credit Points: 3

MURDOCH: S2-internal

This unit introduces fundamental concepts of parasite disease ecology. It explores factors influencing the distribution and abundance of parasites in host populations, and the processes that underpin the emergence of epidemics. The life cycles of major parasites of people are described, with particular attention to new parasitic diseases which are emerging from transmission cycles involving people, domestic animals and wildlife. The interaction between hosts and parasites, leading to disease, is covered, as is the treatment and control of parasitic diseases.

Lectures: 3 hours per week; practicals: 3 hours per week

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

Exclusions: Students who have successfully completed BMS364 Parasitology may not enrol in this unit for credit.

### Parliamentary Democracy (SWM646)

Credit Points: 3

Not available this year

Parliamentary Democracy is a two-week unit looking at the legislative branch of government, conducted on site at the Parliament of Western Australia. Students learn about parliament's functions, powers and procedures, and how it interacts with party politics. The unit encompasses seminars with participation from parliamentarians and parliamentary officials, opportunities to observe parliament in action, and a tour of the parliamentary buildings. The unit is of particular value to those considering careers in the public service, journalism or the political sphere.

Seminars for this unit will be held in a two-week intensive period with 4 x 3 hour sessions each week, totalling 24 hours of contact time for both weeks.

Self-directed learning.

Prerequisites: Enrolment in a graduate-level course.

This unit is subject to quota. Quota is due to parliamentary limits and resources. Preference will be given to students in the Sir Walter Murdoch School.

### Pastoral Care (THE645)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Through pastoral care, emotional and spiritual support can be extended to individuals and communities. It is concerned with well-being and involves the carer being intentionally present for others. This unit will provide an introduction to some of the dimensions of pastoral care.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

Prerequisites: Enrolment in graduate-level study.

### Pastoral Practicum (THE512)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit consists of experience and reflection in a work situation or institutional setting. It provides an opportunity for students to exercise skills in ministry under supervision with a view to further develop these skills and to deepen theological awareness of the issues involved in ministry/chaplaincy.

The timetabling of learning activities is negotiated in each specific practicum. The practicum is 10.7 hours/week (or 150 hours overall), including 1 hour of supervision/week.

Prerequisites: Enrolment in the Graduate Diploma/Master of Chaplaincy.

Students need to contact the unit coordinator in advance of the semester in which THE512 is to be taken.

**Pathological Basis of Disease (BMS314)**

Credit Points: 3

MURDOCH: S1-internal

This unit deals with the basic principles of general pathology. It covers all the key mechanisms of diseases such as thrombosis, cardiovascular disturbances, inflammation, cell and tissue death, diseases resulting from an aberrant in utero environment, and diseases of abnormal DNA processing such as neoplasia and inherited conditions. Using examples from human and animal disease the relationships between the varying pathological processes will be explored. Disease is discussed at both the naked eye, microscopic and molecular levels.

Lectures: 3 hours per week; histopathology laboratories: 2 hours per week.

Prerequisites: BMS264/BMS206 OR BMS321 OR concurrent enrolment in BMS321.

Exclusions: Students who have successfully completed BMS360 Mechanisms of Disease cannot enrol in this unit for credit.

**Pathology and Diseases of Production Animals (ANS313)**

Credit Points: 3

MURDOCH: S1-internal

Pathological processes and their interrelationships will be examined in: general pathology lectures (shared with VET375, CHI391, and BMS314), workshops on processes of general pathology (using examples of diseases in production animals to illustrate the basic processes), and mind-mapping seminars on broad concepts. One workshop will introduce concepts in public health and disease surveillance. Some practical interpretation skills developed through the use of case studies arising from the diagnostic pathology service provided by the School will be taught.

Lectures: 3 hours per week (35 total); workshops: 2 hours per week; seminars: 0.5 hours per week.

Prerequisites: Enrolment in Bachelor of Animal Science OR Animal Science major OR Animal Health major; ANS251 Agricultural Biochemistry or VET272 Veterinary Biochemistry; ANS253 Physiology and Anatomy of Farm Animals or ANS221 Animal Structure and Function.

**Peasants, Rebels and Leviathan: Modern Southeast Asian History (HIS334)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on social, political and economic change in modern (19th and 20th centuries) Southeast Asia, and especially the collision of tradition and modernity and local responses to European and Japanese power. Additional topics will be: the role of overseas Chinese and Indians in the region, the changing status of women, modernity and religion, and transnational culture. Readings include classic works of regional study and more recent scholarship.

Lecture: 1.5 hours per week; Tutorial: 1 hour per week.

In addition to the above learning outcomes, this unit will contribute to the development of the following Graduate Attributes:

- \* Social interaction
- \* Independent and lifelong learning
- \* An ethics of tolerance and respect for diverse viewpoints
- \* Global perspective and cultural sensitivity
- \* Interdisciplinarity

Prerequisites: Nil.

**Pedagogical Leadership in the Early Years (EDN521)**

Credit Points: 3

MURDOCH: S1-external (closed pending cancellation of the offering)

Designed for professionals working in all areas of early childhood education and care (e.g. schools, childcare, family day care, playgroups, OSHC). Develop knowledge and skills to enable you to provide contemporary leadership in the early years of education and care. Explore policy contexts in Australia within a global context. An emphasis on quality early years pedagogies features in this unit. Engage in critical reading and evaluation of early years programs and the dynamics of early years environments in the twenty-first century.

1 x 1 hour lecture (divided into a series of podcasts)

1 x 2 hour workshop

Prerequisites: Enrolment in an Education Graduate course.

**Pedagogies for Literacy and Numeracy in the Early Years (EDN566)**

Credit Points: 3

MURDOCH: S1-external

This unit aims to equip early childhood educators with sound knowledge and skills to effectively teach literacy and numeracy in the early years. The integration of literacy and numeracy across the curriculum will be explored, as will the role of the educator as an intentional teacher of literacy and numeracy in children's play.

Prerequisites: Enrolment in the Graduate Diploma of Early Childhood Care and Education or the Graduate Certificate in Early Childhood Education, or the Graduate Certificate in Early Childhood Care and Education, or the Master of Education (Coursework).

**People and Performance (MBS591)**

Credit Points: 3

Not available this year

This unit will provide students with an opportunity to reflect upon and improve their management of people in service organisations. The unit focuses on enhancing motivation and capability of individuals and teams based on the application of psychological principles to better manage service delivery. Topics covered will include motivating people, building capability, creativity, decision making, stress, effective communication, conflict management and working in teams.

Up to 24 contact hours plus personal study up to a total of 150 hours.

Prerequisites: Nil.

**People's History of South-East Asia (AST286)**

Credit Points: 3

Not available this year

Explores important themes in South-East Asian modern history, including contemporary social patterns and historical processes, in particular Asian societies as perceived by the people themselves; the structure of social dominance; the autonomy of popular culture; the impact of global trade; migration and the diaspora communities; colonialism and self; ideology and revolution; commodities, lifestyles and identities. The unit aims to bring the boundaries of South-East Asian history as close as possible to those of people's lives and experiences.

Lectures: 1 hour per week; tutorials: 1.5 hours per week

Prerequisites: Nil.

### **People, Corporates and Globalisation (MCM604)**

Credit Points: 3

MURDOCH: S2-internal

In this unit students study the discourse of globalisation from interdisciplinary perspectives. They examine corporate responses including corporate social responsibility to a range of global challenges identified by the United Nations. These challenges include human trafficking, HIV/AIDS, power and practices of transnational corporations. Importantly, it provides an opportunity for students to: recognise that corporates respond to and communicate their responses/ responsibilities to global issues in multiple ways; broaden their understanding of issues and identify others, and communicate their own opinions.

Seminars: 3 hours per week, which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff.

Prerequisites: Enrolment in graduate course of study.

### **Perceptions of South-East Asian Society (AST556)**

Credit Points: 3

Not available this year

This unit seeks to develop an awareness of the impact of colonialism on traditional societies in South-East Asia, and the perceptions of the coloniser and colonised of each other, on the basis of literary (novels and short stories) and historical records. Attention will be paid to life and work in traditional South-East Asian societies in the pre-colonial period, patterns of colonial administration and oppression, social and psychological dislocation and the universality of the colonial experience.

Seminar: 3 hours per week.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) course or permission of the Unit Coordinator.

### **Performance and Creative Arts (EGL236)**

Credit Points: 3

MURDOCH: S2-internal

Students develop skills in the analysis of performance art and in creating their own works in response. The unit outcomes include providing a detailed understanding of theoretical, critical and practical approaches to contemporary performance work; enhancing the critical analysis skills of each student; developing an understanding of the ways in which social justice issues can be interrogated in performance; providing a global perspective on issues surrounding the production and reception of performance; and enhancing students' communication and negotiation skills.

Seminars/lectures: 1 hour per week; workshops: 1.5 hours per week.

Field trip to the Art Gallery of Western Australia and the Perth Institute of Contemporary Art once during the semester to attend and review exhibitions and installations.

Prerequisites: Nil.

### **Perspectives on Security and Terrorism (POL192)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces the concepts of security, risk, terrorism and counterterrorism and examines how various agents in international society perceive and employ them. It explains how and why

terrorism undermines security and what measures are often taken to counter it. The unit also analyses the relationships between terrorism and religion, the media, democracy and international law. It finally examines the way Australia has responded to terrorist threats since the attacks on the US in September 2001.

Lectures: 1.5 hour per week; tutorials: 1 hour per week.

Prerequisites: Nil.

### **Pharmacology and Applied Nutrition (CHI459)**

Credit Points: 3

Not available this year

The general principles of pharmacology in a clinical environment are included in this Unit and also an understanding of how drugs work in the various bodily systems. Introduces the principles of nutrition science. Topics include nutrients, nutritional toxicity and deficiency, nutritional assessment and nutritional recommendations.

Lectures: 3 hours per week (2 hours Pharmacology, 1 hour Nutrition); Workshop: 2 hours per week (1 hour Pharmacology, 1 hour Nutrition)

Computer software workshop for dietary assessment.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BClinChiro), and successful completion of Years 1 to 3, or permission of the Unit Coordinator.

### **Photo and Video Journalism (MCC267)**

Credit Points: 4

DUBAI-ISC: TMD-internal

Students will be exposed to the challenge of using still and moving images to tell real stories. Students will learn the conventions and techniques of documentary photography, and the contemporary processes of digital reproduction, in readiness to apply them for publication in the newsroom production unit.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: PHO124 Photography I; MCC104 Introduction to Journalism or EGL114 Introduction to Creative Arts.

### **Photo Documentary (PHO202)**

Credit Points: 3

MURDOCH: S2-internal

Theory and practice in producing image based narratives. The course will equip students to develop the conceptual and technical skills required to produce a documentary photography project. Students will develop a proposed area of investigation at the beginning of the course to develop into a portfolio project by the end of semester. In addition students will be introduced to the history and key practitioners of documentary photography.

Lectures: 1 hour; tutorials: 90 minutes.

Prerequisites: Nil. However basic photography skills are required to complete this unit. Students who have no experience in photography are strongly advised to complete PHO124 Photography I prior to attempting this unit.

### **Photographic Culture (PHO305)**

Credit Points: 3

MURDOCH: S2-internal

A cultural history of Photography, the major movements and development. An overview of the principle practices, theories and debates. Photographic Culture will create a new context for reflection on the nature of photography, its practices, meanings,



and private/public worlds.

Lectures: 1 hour; workshops: 1.5 hours.

Prerequisites: PHO204 Visual Literacy

### Photography 1 (PHO124)

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit is an introduction to the theory and practice of photography. The course will equip students to develop the conceptual and technical skills required to produce substantial photography projects. Students will develop a proposed area of project development at the beginning of the course to develop into a portfolio project by the end of semester. In addition students will be introduced to the history, the key theoretical debates, photographic movements and practitioners of photography.

Workshops 1.5 hours per week for 12 weeks; Lectures 1 x 1 hour per week for 12 weeks.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC124 Photography and Digital Imaging may not enrol in this unit for credit.

This unit is offered in both Semester 1 and Semester 2 in order to ensure that students have reasonable access to the School's photographic equipment. While the school has camera equipment available for loan it is highly recommended that students obtain a camera of their own to use for this course (entry level DSLR)

### Photography 2 (PHO203)

Credit Points: 3

MURDOCH: S1-internal

Photography II focuses on advanced photographic practice and alternative imaging processes. Students explore technical and aesthetic modes of photographic practice. The unit is designed to prepare students for major portfolio, exhibition and commercial practice. Students will be introduced to the conceptual and technical methods required to plan and develop substantial project work.

Workshops 2.5 h/wk.

Students have weekly practical photography assignments to complete which may involve travelling and working on external locations and in public spaces.

Prerequisites: PHO124 Photography I

### Photography and Digital Imaging (MCC124)

Credit Points: 3

DUBAI-ISC: TMD-internal

This unit is a practical introduction to photography and the digital imaging workflow as a foundation for students wishing to pursue studies in multimedia, cinematography and photography. Camera operation, image acquisition and production workflow skills learnt at the level of the still image become the basis of skills in all later visual media work. Learning activities emphasise the creation and analysis of the still image in the context of the major concepts, movements and practices in historical and contemporary photography.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED102 Photography or MCC124 Photography and Digital Imaging may

not enrol in this unit for credit.

### Physical Assessment and Rehabilitation (EXS306)

Credit Points: 3

MURDOCH: S1-internal

Provides students with a basic understanding of rehabilitation assessments, techniques and protocols. It enhances the ability of a student to assist in developing of a person to the fullest physical, psychological, social, vocational, and educational potential within their physiological/anatomic impairments and environmental limitations. Upon completion, students will be able to develop and implement baseline exercise rehabilitation techniques for patients who have a wide variety of musculoskeletal conditions.

Lecture: 1 x 2 hours per week; Laboratory: 1 x 2 hours per week. For UA9 Offering

Seminar: Online self-directed (via LMS) 1 x 8 hours per week;

Practical: In person tutor-directed 1 x 3, & 1x1 hour.

Prerequisites: EXS124 Introduction to Sports Science, EXS103 or CHI225/EXS225 Principles of Strength and Conditioning; EXS203 or CHI208/EXS208 Health, Fitness and Performance Assessment.

Exclusions: Students who have successfully completed CHI328 Physical Assessment and Rehabilitation may not enrol in this unit for credit.

### Physical Chemistry I (CHE202)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit builds on a basic understanding of chemical principles to show the practical investigative uses of thermodynamics and kinetics. In addition, it introduces molecular orbital concepts of structure and reaction mechanisms. The concepts of ionic strength, activity, redox, complexation, speciation, solubility and membrane equilibria are discussed and applied to practical situations, including biochemical systems. MO theory of planar molecules and simple reactions including Lewis acid/base and SN2.

Lectures: 3 x 1 hour per week; laboratories: 1 x 4 hours per week.

Prerequisites: CHE144 Foundations of Chemical Principles; CHE145 Introduction to Chemical Concepts.

Up to 5 days intensive laboratory activities for external students.

### Physical Chemistry II (CHE347)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will further develop the chemical kinetic and thermodynamic principles covered in Physical Chemistry I with a specific focus on applications in solution chemistry.

Lectures: 1 x 3 hours per week; laboratories: 1 x 4 hours per week for 10 weeks.

Up to 5 days intensive laboratory activities for external students.

External students will be required to attend a compulsory 5-day on-campus laboratory session.

Prerequisites: CHE202 Physical Chemistry I.

Exclusions: Students who have successfully completed both CHE201/PEC201 Thermodynamics and CHE247/PEC247 Chemical Processes cannot enrol in this unit for credit.

**Physical Education (EDN116)**

Credit Points: 3

MURDOCH: S2-internal

This introductory unit focuses on the development of physical activity and coaching/teaching skills, developed through a range of movement experiences in different physical education and sporting contexts. The unit is valuable for students who intend to teach physical education across K-12 in WA schools. Students will be introduced to Fundamental Movement Skills, teaching/coaching principles and methodologies and to the sports Gymnastics and Volleyball. As part of this unit, students will complete their Community Coaching General Principles course.

Lecture: 1 x 1 hour; Tutorial: 1 x 2 hours.

Students will visit a local Primary School to implement a Physical Education lesson that they have planned with a partner. This will occur once during the timetabled tutorial time. Students require a Working with Children Check card for the Primary School Visit.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EDU107 Physical Education may not enrol in this unit for credit.

Students require a Working with Children Check card for the Primary School Visit.

**Physical Examination (CHI293)**

Credit Points: 3

MURDOCH: S2-internal (quota of 90 places)

This unit introduces students to the process whereby a clinician investigates a patient for signs of disease. Students will have the opportunity to learn the techniques and procedures associated with physical examination of the different body systems and the ability to synthesise findings. The unit builds upon other units by providing the student with the opportunity to develop the necessary knowledge, skills, manual dexterity, attitudes and behaviours to be a safe and effective health care provider, focusing on clinical examination.

Lectures: 2 hours per week; Practicals: 2 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Year 1, and CHI255 Human Anatomy I, BMS264 Biomedical Physiology OR BMS206 Biomedical Physiology.

This unit is subject to quota. Quota is due to limited facilities requirements. Preference will be given to students in Chiropractic. Non-clinical students need to apply via the Unit Coordinator to take this unit.

**Physical Sciences Internship (PEN310)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, Y-internal

A one-semester full-time (or full-year equivalent) work experience internship that will provide appropriate professional experience in the student's discipline area. Available to students in their final year of study. Students will be formally supervised by an academic staff member as well as by the employing organisation. The unit includes some workshops to prepare students for the workplace experience.

Prerequisites: Acceptance into the Science Internship Program and approval by the Academic Chair.

Students cannot self-enrol in this unit.

**Physicochemical Water Treatment Operations (ENG510)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces students to the function and design of the primary physical and chemical treatment technologies which are used to treat water. Particular emphasis is placed on the principles of operation and the manipulation of design parameters allowing technologies to be adapted to different water sources and treatment objectives. Understanding these also forms the basis for understanding more specialised treatment operations as well as hybrids. The student will be introduced to the means of and limits to sizing of each operation.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

**Physics and Nanotechnology Projects (PEN307)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, Y-internal

The objective of this unit is to integrate knowledge and abilities gained from units taken in the Physics and Nanotechnology major and other related disciplines and apply them to the investigation of a particular physics/nanoscience-related problem or topic, under the supervision of an academic staff member. Students may select a project from any area of nanoscience and chemistry/physics/energy studies/engineering/forensics/biomedical sciences in consultation with the Unit Coordinator, and subject to the availability of supervision.

Contact time by individual arrangements with Supervisors.

Prerequisites: PEN261 Applications of Nanotechnology.

**Physics for Teaching Secondary (7-10) (PEN540)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This is an introductory physics unit which covers a range of topics including measurement, motion, waves, light, thermal energy, electric and magnetic fields. This unit does not require knowledge of calculus. Applications and examples are drawn from the biological, environmental, medical and physical sciences. This content reflects the SCASA Science Curriculum for Years 7-10.

Lectures: 2 x 1 hour per week; tutorials/laboratories: 1 x 2 hours per week

Prerequisites: Enrolment in the Graduate Certificate in Education (Secondary Science 7-10)

**Physics of Materials (PEN317)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers the properties of matter and the structure and properties of solids and surfaces and their technological applications. Topics covered include phases of matter, properties of gases, liquids and solids, defects and dislocations in solids, quantum statistics, lattice vibrations, free electron theory of solids, metals, insulators and semiconductors, semiconductor devices, dielectrics, magnetic and amorphous materials, superconductivity and surfaces of solids.

Lectures: 3 x 1 hour per week; Tutorial: 1 hour per week;

Laboratories: 4 x 3 hours per semester.

Prerequisites: CHE140 Fundamentals of Chemistry/PEC140 Introduction to Chemistry or CHE144 Foundations of Chemistry/PEC144 Chemical Principles; PEN231/PEC231 Modern Physics, PEC302/PEN202 Thermodynamics for Physics and Nanotechnology.

Exclusions: Students who have completed PEC247 Physical and Inorganic Chemistry prior to 2011 may not complete this unit for credit.

Students who have completed PEC317 Physics of Materials prior to 2016 may not complete this unit for credit.

### Physiological Therapeutics (CHI423)

Credit Points: 2

MURDOCH: T3-internal

Provides instruction in the indications and safe and accurate use of ancillary modalities in conjunction with manual therapies. Discussion includes the appropriateness of ancillary modalities as a single therapy or as a therapy in conjunction with other forms of care.

Lectures/workshops: 2 hours per week; practicals (small groups): 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and the successful completion of CHI301 Processes in Human Disease, CHI302 Diagnosis and Chiropractic Skills, CHI303 Primary Practice I: Clinical Science and Diagnosis, and CHI304 Clinical Orthopaedics and Neurology.

### Pig and Poultry Health and Management (VET635)

Credit Points: 2

MURDOCH: T1-internal

This unit covers the diagnosis, treatment, prevention and control of diseases of intensively farmed pigs and poultry. Particular emphasis is placed on the prevention of disease and correction of management and nutritional factors affecting production. The general principles involved in the investigation of herd and flock problems and formulation of herd and flock health and production programs are emphasised.

24 lectures  
6 hours practical sessions

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### Plant Biosecurity in Practice (BIO538)

Credit Points: 3

MURDOCH: S1-external

The broad aims of this unit are to introduce you to the regulatory framework and phytosanitary measures that apply to import and export of plant material and plant products, and explain the concepts of the plant biosecurity continuum, and the drivers behind plant biosecurity practices. On successful completion of the unit you should understand the contextual framework required for effective plant biosecurity practice, and be able to interpret plant health regulations in relation to market access (import and export).

This unit is delivered online.

Prerequisites: Enrolment in a graduate-level course. Students who wish to enrol in this unit as 'not for award' will be considered on a case by case basis.

### Plant Biosecurity: Detection and Diagnostics (BIO537)

Credit Points: 3

MURDOCH: S1-external

This unit will introduce students to the tools and technologies required for effective detection and diagnosis of emergency plant pest and diseases. It includes a comprehensive overview of surveillance and diagnostic methods, with particular emphasis in the following areas: sampling and survey methods, monitoring strategies, and traditional (taxonomy and microscopy) and advanced (molecular and biochemical) diagnostics. This unit will also cover the requirements for certification of diagnostic laboratories and diagnostic protocols, decision making tools and reporting networks/databases.

This course is delivered online.

Prerequisites: Enrolment in a graduate-level course. Students who wish to enrol in this unit as 'not for award' will be considered on a case by case basis.

### Plant Biotechnology and Proteomics (BIO355)

Credit Points: 3

Not available this year

This unit provides the latest information and practicals in plant biotechnology, and analysis of proteins. It covers applications of molecular biology to crop improvement, including plant tissue culture, marker-assisted breeding, gene mapping, plant genomics and proteomics, molecular plant pathology and transgenic (genetically modified) plants. In practical classes students will undertake experiments in tissue culture, production of transgenic tissues, proteomic analysis using mass spectroscopy, diagnostics, gene mapping and plant virology. The deployment of transgenic crops is discussed in group presentations.

Lectures: 3 hours per week; laboratories: 4 hours per week.

Prerequisites: BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology and BIO248/BIO212 Genetic Engineering

Exclusions: Students who have successfully completed BIO253 Plant Biotechnology and Proteomics may not enrol in this unit for credit.

This unit is not available in 2016 - contact the Biotechnology Academic Chair for advice regarding an alternative option.

### Plant Evolution, Radiation and Adaptation (BIO245)

Credit Points: 3

MURDOCH: S1-internal

This unit explores the evolution and incredible diversity of land plants. Particular emphasis is placed on the movement of plants onto land 460 million years ago and the structural changes which enabled them to adapt to an ever changing climate. Diversity in form and function and the relationships between the plant groups is presented within a phylogenetic framework. Practical sessions examine the morphological characteristics and reproduction of the various plant groups.

Lectures: 2 per week, Tutorials: 1 per week; laboratories: 4 hours per week (10 weeks in total).

Prerequisites: BIO103 Environmental Biology / Introduction to Environmental Biology or BIO180 Introduction to Marine Biology.

Exclusions: Students who have successfully completed BIO265/BIO245 Plant Diversity or BIO287 Plant Diversity (Marine Science) may not enrol in this unit for credit.

**PLC Applications (ENG501)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides the basics of computer based measurement and control by exploring PLC and PAC systems. The strong laboratory component provides students with practical experience in using these systems in an industry environment. Students are expected to design, commission and test small scale systems involving programming, networking and interfacing to instruments.

Meetings/laboratories: by arrangement with the Unit Coordinator.

Prerequisites: Enrolment in the Master of Engineering or Graduate Diploma in Engineering.

Students will be expected to have experience in at least one programming language and some fundamental knowledge of electrical circuits and electronics.

**PLC Systems (ENG311)**

Credit Points: 3

MURDOCH: S1-internal

This unit provides a thorough understanding, knowledge and practical experience in using PLC systems for measurement and control in an industrial process setting. Topics include: PLC categories, types; project-oriented development environment; hardware configuration; digital I/O; ladder logic, STL, FBD; logic operations, timers, counters; simulators; numerical and interrupt processing; process simulation, analogue I/O, PID control; state based design and implementation; operator panels, networking, I/O modules, remote I/O; multiple PLC project development and documentation.

Lecture/Workshop/Laboratories: 2 x 3 hour sessions per week, Monday and Friday.  
In PS2.027.

As this unit makes use of specialised equipment available only in the Industrial Computer Systems facility which is available 24/7, students must regularly practice their skills and build their knowledge and understanding. When within the facility, all students are encouraged to help each other and discuss problems and solutions with each other. As the background work for projects is also done outside of class in groups, these also provide an opportunity to develop group oriented skills.

Prerequisites: ENG109 Computing for Scientists and Engineers; ENG207/ENG262 Principles of Electronic Instrumentation; ENG294 Discrete Time Systems or ENG267 Process Dynamics and Control Systems.

**Policing and Crime Prevention (CRM201)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides students with both applied and theoretical perspectives on the issue of crime prevention strategies. Students will study the theoretical perspectives in crime prevention and then examine the difficulty faced by modern police services in protecting the community

Lectures: 2 hours per week.

Prerequisites: Nil.

**Policing and Crime Prevention (LLB201)***As for CRM201 except:*

Credit Points: 3

MURDOCH: S1-internal

Lectures/seminars: 2 hours per week.

3 online quizzes run through LMS and based on the unit reading materials.

Prerequisites: Nil.

Exclusions: Students who have completed CRM201 Policing and Crime Prevention may not enrol in this unit for credit.

**Policing, Intelligence and Counterterrorism (POL335)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The exponential growth of terrorist cells, particularly in Western democracies, has brought to light the pressing problem of radicalisation and its operational effects in the form of terrorist planning and attacks. A key element in fighting this threat is reliable intelligence, which could be used by police to prevent terrorist attacks from taking place. This unit will focus on the problem of radicalisation and explore how intelligence and pre-emptive policing could be used to deal effectively with this problem.

Weekly 1.5 hour lecture, 1 hour tutorial.

Prerequisites: Nil.

**Policy Research and Evaluation (SWM516)**

Credit Points: 3

MURDOCH: S2-internal

Knowledge and evidence are important elements in public policymaking. This unit considers the role of evidence-based research and systematic analysis in the development of policy. It demonstrates the key function of policy evaluation as part of policy learning processes. The iterative and innovative dimensions of policy research and evaluation will be explored through practical examples and exercises. The unit will assist students to acquire the critical capacities and skills used in the generation and development of policy initiatives.

The unit is offered in intensive mode with 3-4 full or half day sessions equating to 24 hours contact time distributed across the semester. These sessions require students to complete pre-readings and to prepare questions for discussion in small or large group sessions led by fellow students. Online discussion is also required and forms part of the unit assessment.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed SSH616 Policy Research and Evaluation may not enrol in this unit for credit.

**Politics and Security in South-East Asia: Terrorists, Gangsters and the State (POL338)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines the emergence and interrelationship of a broad range of non-traditional and human security issues in contemporary Southeast Asia. The unit adopts a critical approach in examining topics such as organised crime, political corruption, environmental and resource security. Other topics covered include human trafficking and structural violence. Responses to and political

conflicts over these issues by and between states and societies, as well as the implications these hold for our understanding of 'security' itself, will be examined

Workshop: 2.5 hours per week

Prerequisites: Nil.

Exclusions: students who have completed POL213 Politics and Security in South-East Asia: Terrorists, Gangsters and the State may not enrol in this unit for credit.

### **Politics, Journalism and Society (MCC240)**

Credit Points: 4

DUBAI-ISC: TMD-internal

The unit considers the relationship, roles and functions of the journalist in modern society. Students will investigate a range of issues which highlight the political and cultural significance of journalism in society, its application in the multi-platform media age and its practice in a range of subset disciplines, such as war reporting, business journalism, and its interaction with public relations.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Politics, Power and Policy (POL133)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

What is politics? Who has power? What shapes policy? This unit introduces students to key ideas, theories and debates relating to domestic and global political institutions and processes and their broader intersection. It then examines how these ideas, theories and debates shape major contemporary political and policy questions such as: inequality and injustice; gender and class; security and human rights; peace and conflict; capital flows; people flows; imperialism, globalisation and the Global North/South divide; and climate change.

Weekly 1 hour lecture and 1.5 tutorials

Prerequisites: Nil.

### **Pollution and its Control (ENG221)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

An introduction to the study of pollution and its control, particularly discussing the relationship between wastewater and pollution. Examines the impacts of wastes on the environment, the ability of nature to assimilate wastes, and the natural physical, chemical and biological assimilative processes. Develops basic scientific and technical skills for pollution assessment with respect to the source, composition and characteristics of the wastes. Examines available technologies for pollution control and protection of water quality from municipal, urban, agricultural and industrial sources.

Lectures: 2 x 1 hour per week; practical work: 1 x 3 hours per week for 8 weeks; workshops: 1 x 2 hours per week for 4 weeks.

There will be a number of laboratory works and site visits to industrial facilities and utility infrastructure during the timetabled practical sessions.

Prerequisites: ENV102 Foundations of the Environment and CHE144 Foundations of Chemistry, or approval from the Unit Coordinator.

External students should note that this unit has a compulsory on-campus component. Due to the nature of offering this unit, students are recommended to seek confirmation of the exact

attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

### **Popular Literature and Science Fiction (EGL230)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit combines analysis of popular literature's cultural impact with close readings of texts from several genres, emphasising so-called speculative, or science fiction. In this unit we investigate the origins of various generic elements of popular fiction, developing an understanding of their historical and social basis, and their political potential. We explore the use of SF tropes and techniques in postmodern literature, and investigate how such texts engage with the political and philosophical potential of fiction.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

### **Popular Music (RAD374)**

Credit Points: 3

MURDOCH: S2-internal

Students will study the major streams of western popular music such as folk, country, blues, jazz, rock and roll, and hip hop, to discover the many ways in which these styles have influenced each other and the mainstream. The interweaving of popular music and its surrounding society and popular culture, the way the music business acts on and reacts to musical trends, technology's effect on popular music, and the evolution of the musical artist as branded product, will be explored.

Lectures/seminars: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC274 Popular Music may not enrol in this unit for credit.

### **Portfolio and Promotion for Designers (IDD337)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides an opportunity for students to produce an industry-level project as well as develop a professional portfolio showcasing a larger body of work developed throughout their degree. Students will also be introduced to promotion strategies and industry professionals in order to advertise their portfolios.

Online lecture; Media laboratories: 3 hours per week

Prerequisites: MCC263 Web Design or IDD338 Advanced Web Design; and IDD201 Publication Design.

Exclusions: Students who have successfully completed MCC339 Multimedia Studio may not enrol in this unit for credit.

### **Post Production in Media Production (SCR501)**

Credit Points: 6

Not available this year

Students learn specific and advanced post-production vision and sound skills and knowledge by working alongside industry professionals on a series of short films shot previously at various locations. This is a post-production intensive aimed at immersion in an industry model, and offers insight to post-production projects at a local level.

Workshops: Students will be guided through the post-production process in sound and vision by a professional mentor. Each project to be practised on is a professional production. . Workshops

sessions are intensive and will consist of several sessions of 3 hours per week, and students are expected to continue post-production on the films in their own time. The complete process of post-production will take around 8 weeks.

Prerequisites: SCR588 Professional Placement in Media Production and enrolment in Graduate Diploma of Media Production.

### **Postgraduate International Study Tour (MBS672)**

Credit Points: 3

Not available this year

Provides business managers with cross-cultural skills and knowledge to establish productive business relationships in China and to establish and manage business ventures for foreign companies operating there. Topics: Chinese commercial negotiating styles; bargaining strategies; cultivating trust, building influence networks; decision making processes; contracts; business customs, etiquette; conflict; market entry modes; levels of government for approvals and licenses; joint venture partner selection; joint venture negotiations, structures, staffing and control; political systems and structures.

Prerequisites: Enrolment in a graduate-level course.

### **Postwar Japan (JPN514)**

Credit Points: 3

Not available this year

This unit examines Japan from 1952 to the present. It traces the great changes that took place as Japan established itself as a major world power, but also acknowledges the persistent influence of the Second World War over later events and perceptions. Topics include the influence of television, the Tokyo Olympics and the political quest to become a 'normal nation' in the 21st century.

Lectures: 2 hours per week; tutorials: 1 hour per week.

### **Power Electronic Converters and Systems (ENG318)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces power electronic circuits, converters and systems. It covers power semiconductor devices, AC-DC, DC-DC, DC-AC and AC-AC converters. Industrial applications of power electronic systems will be also presented.

Lecture: 1 x 2 hours per week; Workshop: 1 x 1 hour per week; Laboratory: 1 x 3 hours per week.

Prerequisites: ENG297/243 Circuits and Systems II, ENG207/262 Principles of Electronic Instrumentation.

Co-requisite: MAS220/261 Mathematical Methods.

Exclusions: ENG349 Power Electronic Converters and Systems.

### **Power System Economics and Electricity Markets (ENG561)**

Credit Points: 3

MURDOCH: S2-internal

This unit discusses the economic theory and practice associated with the operation and management of the electrical network, including economic dispatch. It introduces the electricity markets and discusses the need for economic operation within the deregulated industry, covering transmission transactions and the technical and economic issues associated with them.

Meetings/workshops: by arrangement with the Unit Coordinator.

Prerequisites: Enrolment in the Master of Engineering or permission of the Engineering Academic Chair.

### **Power System Modelling and Analysis (ENG556)**

Credit Points: 3

MURDOCH: S1-internal

The unit discusses techniques for the effective design and planning of both the power transmission and distribution networks, including issues of reliability and stability. The topics covered in the unit are transmission line modelling, distribution transformers, load flow analysis, symmetrical and unsymmetrical fault analysis and distributed generations. On completing this unit, students should be able to develop models for an interconnected power system and analyses the network with different fault conditions through load flow analysis.

Lectures/laboratories: by arrangement with the Unit Coordinator.

Students may need some outside of class time to undertake aspects of the lecture contents, projects design and analyses.

Prerequisites: Enrolment in Graduate Diploma of Engineering or Master of Engineering.

### **Power Systems Planning, Protection and Control (ENG682)**

Credit Points: 3

MURDOCH: S1-internal

This unit covers advanced concepts associated with the planning and operation of power systems. These concepts include load estimation and forecasting for sizing the components; voltage and frequency control; transient (in)stability caused by fault events; optimal power flow; distributed networks; and design of advanced protection systems.

Lectures/tutorials/meetings/laboratories: By arrangement with the Unit Coordinator.

Prerequisites: Enrolment in the Graduate Diploma of Engineering or Master of Engineering or permission of the Engineering Academic Chair.

### **Power Systems Protection and Control (ENG451)**

Credit Points: 3

MURDOCH: S1-internal

Lectures: 1 x 2 hours per week; workshops: 1 hour per week; Laboratories: 1 x 2 hours per week.

### **Power Systems Protection and Control (ENG455)**

Credit Points: 4

Not available this year

This unit studies the fundamental concepts associated with the operation and control of power systems. These concepts include generator controllers, reactive power compensation, optimal power flow, stability and protection. Special emphasis will be given to topics on electrical safety, the regulation of the electrical industry, and technical standards.

Lectures: 1 x 3 hours per week; workshops: 1 hour per week; laboratories: 1 x 2 hours per week.

Site visit to facilities of an electrical power utility.

Prerequisites: ENG267/ENG299 Control Systems and Process Dynamics; ENG348/ENG323 Power Transmission and Distribution Networks.

Co-requisites: ENG347/ENG317 Electromechanical Energy

Conversion; ENG349/ENG318 Power Electronic Converters and Systems.

### **Power Transmission and Distribution Networks (ENG323)**

Credit Points: 3

MURDOCH: S2-internal

This unit studies the key concepts behind the transmission and distribution of electrical energy. It covers topics such as transmission line modelling, distribution transformers, overhead lines, power flows, symmetric fault analysis, three-phase symmetrical components and non-symmetric fault analysis. This unit is supported by software simulators for performing load flows and fault analyses of three-phase electrical power networks.

Lectures: 1 x 2 hours per week; Workshops: 1 x 2 hours per week; Laboratories: 1 x 2 hours per week.

Students may need some outside of class time to undertake aspects of the lecture contents, projects design and analyses.

Prerequisites: ENG297/ENG243 Circuits and Systems II; MAS220/MAS261 Mathematical Methods or MAS221/MAS208 Mathematical Modelling.

### **Practical Applications of Epidemiology (VET642)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit will provide students with the skills required to evaluate the financial impact of disease and to choose and conduct the most appropriate method for evaluating the economic impact of disease in field situations. It will use practical examples to impart knowledge required for undertaking risk analysis and economic evaluation of disease surveillance and monitoring.

Students will develop the skills to undertake a risk assessment of a disease situation.

On-line contact (discussions and workshops) as required.

Prerequisites: Enrolment in Master of Veterinary Studies (Veterinary Surveillance), Master of Veterinary Studies (Conservation Medicine), Doctor of Veterinary Medical Science, Master of Veterinary Clinical Studies or permission of the Academic Chair. Completion of, or concurrent enrolment in, VET641 Principles of Epidemiology.

### **Practical Metallurgical Processing (ENG562)**

Credit Points: 6

MURDOCH: H-external, Y-external

This unit combines hydrometallurgical and pyrometallurgical theory with practice. Leaching, solvent extraction, electrowinning, ion exchange, carbon-in-pulp gold processing, roasting, fire assay and mineralogical exercises will be completed. Students will experience working with pyrometallurgical and hydrometallurgical equipment. The application of thermodynamic and kinetic principles to extractive metallurgy will be emphasised, and students will learn how to use thermodynamic modelling software and interpret modelling outputs.

Prerequisites: Enrolment in Graduate Diploma Extractive Metallurgy.

Students undertaking ENG562 in H mode must have completed or be concurrently enrolled in ENG193 Introduction to the Minerals Industry, ENG565 Mineralogy for Metallurgists and ENG528 Extractive Metallurgy II.

Students undertaking ENG562 in Y mode must have completed or be concurrently enrolled in ENG193 Introduction to the Minerals Industry, ENG524 Metallurgical Unit Operations and ENG566 Advanced Mineral Processing and ENG527 Extractive Metallurgy I.

Exclusions: Students who have successfully completed EXM506 Extractive Metallurgy Practicum or EXM507 Mineral Processing Practicum may not enrol in this unit for credit.

### **Practical Methods of Instruction (EDN541)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TJD-internal

This unit explores effective teaching strategies that can be used in a variety of settings (with an emphasis on tertiary and adult education). Topics cover: lesson planning and preparation, lecturing, effective questioning, using graphic organisers, group work and collaborative learning, student diversity, ICT assessment and reflection. By the end of the unit, students will have learned concrete ways to assess and improve their teaching practice and have a range of instructional methods to use in their teaching context.

Tutorials: 2 hours per week.

Lectures: 1 hour per week (on-line, to be reviewed prior to Workshop).

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator.

### **Prayer and Morality in Catholic Schools (EDN233)**

Credit Points: 3

Not available this year

This unit is designed for students considering teaching in Catholic schools in Western Australia. The unit aims to help students understand what is distinctive about Catholic schools, what is needed for these schools to be effective places of learning, and the importance of the teacher within the Catholic school.

Lecture/workshops: 8 x 4 hour daily over two weeks in early January, with a study-break on the Wednesday of each week.

Prerequisites: Nil.

This is one of three Catholic Studies Units currently offered at Murdoch University that assist Education students meet the tertiary study requirements of accreditation to teach in a Catholic school.

### **Pre-clinical Practicum (CHI484)**

Credit Points: 6

MURDOCH: Y1-internal

Introduction to clinical practice (observation of senior students). Introduction to clinical observations, with a medical health professional. Introduction to MUCC clinic policies and procedures, and ethical and legal issues such as privacy, confidentiality and record keeping as they relate to patients case management. Introduction to Visual Outcome software. Opportunities to review chiropractic techniques and management of problematic cases. Finally, the student, on becoming a competent intern, will have direct interaction with patients in the clinic setting.

Theory and practical contact time: 3 hours session per week (lecture, workshop, and laboratory).

Clinical observations: 2 to 6 hours of clinical work per week varying through the trimester.

Clinical observational placement: One 2 - 3 hours session in the outpatient age-care facility

Prerequisites: Enrolment in Chiropractic (BSc/BChiro), or Chiropractic Science + Clinical Chiropractic (BSc + BCLinChiro), and successful completion of Years 1 to 3.

Exclusions: Students who have successfully completed CHI4841



Pre-clinical Practicum may not enrol in this unit for credit.

International students enrolled in B1193 Bachelor of Science in Chiropractic/Bachelor of Chiropractic prior to 2009 should enrol in CHI4841 Pre-clinical Practicum.

### Pre-clinical Practicum (CHI4841)

**As for CHI484 except:**

Not available this year

Exclusions: Students who have successfully completed CHI484 Pre-clinical Practicum may not enrol in this unit for credit.

### Preparing for Professional Community Practice (COD303)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This placement unit gives students the opportunity to examine how ideas and practice interconnect. The primary part of this unit requires students to undertake a placement within an organisation that undertakes community-based work. Students will be encouraged to look, listen and consider the linkages between theory and practice by going 'into the field' and reflecting on the process of working within the community. Students are given support to find and negotiate a suitable placement, and required to complete 90 placement hours.

Seven three-hour workshops for internal students and recordings, PowerPoint presentations and reading material for online students.

Written assignments, reading, viewing of practice examples and reflection on writing for community development

Prerequisites: Nil.

### Primary Curriculum IV (Humanities and Social Science, Science) (EDU286)

Credit Points: 4

Not available this year

This unit aims to prepare students for facilitating student learning in two curriculum areas, 'Humanities and Social Sciences' and 'Science', with particular application to the primary classroom. The unit consists of two separate, but complementary strands, both of which promote the use of 'inquiry' or an investigative approach to learning.

3 hours per week for 11 weeks.

Prerequisites: Enrolment in a Teacher Education Course [BEd (Primary), BEd (Primary) (Graduate), BEd (Early Childhood and Primary, BEd (Primary)/BA (AIS)], and successful completion of EDU101/EDU1011 Introduction to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work and successful completion of EDU3153 School Experience: Primary BEd or EDN3100 Professional Experience Primary.

Exclusions: Students who have successfully completed E283 Studies of Society and Environment (formerly E283 Social Studies and the Primary Curriculum) and E284 Science and the Primary Curriculum may not enrol in this unit for credit.

Students are recommended to enrol in EDU3154 School Experience: Primary BEd in the same semester.

### Primary Curriculum IV (Humanities and Social Science, Science) (EDU286)

**As for EDU286 except:**

Credit Points: 3

Not available this year

3 hours per week for 11 weeks

Prerequisites: Enrolment in BEd (Primary) or GradDipEd (Primary) plus successful completion of either EDU101/EDU1011 Introduction to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work.

Exclusions: Students who have successfully completed E283 Studies of Society and Environment (formerly E283 Social Studies and the Primary Curriculum) and E284 Science and the Primary Curriculum may not enrol in this unit for credit.

### Primary Practice II: Physical Rehabilitation I (CHI442)

Credit Points: 2

MURDOCH: T1-internal

Focuses on collection of patient data necessary to develop and implement a physical rehabilitation program to complement or succeed the initial treatment plan for a spinal complaint. Builds on the development of competencies in performing physical examination procedures for purposes of differential diagnosis. Refines physical examination and implements functional examination skills for assessing the neuromusculoskeletal systems and also introduces procedures for examining spinal stability and strength.

Lectures: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and successful completion of BSc (Chiropractic), or enrolment in Bachelor of Sports Science or enrolment in the BEd (Sec)/Sport Science or permission of the Academic Chair.

Exclusions: Students who have successfully completed CHI411 Primary Practice II: Physical Rehabilitation cannot enrol in this unit for credit.

### Primary Practice III: Differential Diagnosis I (Musculoskeletal) (CHI443)

Credit Points: 2

MURDOCH: T2-internal

This unit stresses clinical decision making. It builds on earlier diagnosis units, further developing students' diagnostic and patient management skills. Focusing on the differential diagnosis of the patient's presenting complaint; consideration is given to the differential diagnosis of symptoms suggesting dysfunction of the musculoskeletal system and how to manage the patient appropriately.

Lectures: 2 hours per week; tutorials: 1 hour per week; 6 hours self directed learning.

Prerequisites: Enrolment in BSc/BChiro and successful completion of BSc (Chiropractic).

Exclusions: Students who have successfully completed CHI413 Primary Practice IV: Differential Diagnosis II cannot enrol in this unit for credit.



### Primary Practice IV: Differential Diagnosis II (CHI444)

Credit Points: 2

MURDOCH: T1-internal (quota of 90 places)

This unit focuses on common clinical presentations related to the body systems and the clinical decision-making process (differential diagnosis) associated with the development of probable diagnoses. Principles of management will be addressed and the role of chiropractor emphasised, within the context of the broader healthcare system. The unit builds upon prior clinical units to provide the opportunity for students to gain the knowledge, skills and behaviours for the safe and appropriate management of patients in clinical practice.

Lectures: 2 hours per week; practical laboratories: 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and successful completion of BSc (Chiropractic).

This unit is subject to quota. Quota is due to limited resources and space requirements. Preference will be given to students in the Bachelor of Chiropractic.

### Primary Practice V: Physical Rehabilitation II (CHI445)

Credit Points: 2

MURDOCH: T2-internal

Refines physical examination and implements functional examination skills for assessing the musculoskeletal systems and rehabilitation procedures.

Lectures: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: Enrolment in BSportsSc, BEd(Secondary)/BSportsSc or enrolment in BSc/BChiro with successful completion of CHI442 Primary Practice II: Physical Rehabilitation I.

Exclusions: Students who have successfully completed CHI411 Primary Practice II: Physical Rehabilitation cannot enrol in this unit for credit.

### Primary Practice VI: Pharmacology (CHI446)

Credit Points: 2

MURDOCH: T1-internal

This unit continues students' previous training in the area of physical and differential diagnosis implementing the general principles of pharmacology in a clinical environment. It will provide an understanding of the basic concepts and principles of pharmacology such as: standard definitions; sources of drugs; drug names and classifications; routes of administration; drug action; absorption; bioavailability; distribution; metabolism; excretion; and adverse reactions and will also provide an understanding of how drugs work in the various systems of the body.

Lectures: 2 hours per week; Workshops: 1 hour per week.

Prerequisites: Enrolment in BSportsSc, BSc(Exercise Physiology) or enrolment in BSc/BChiro with successful completion of BSc(Chiropractic).

Exclusions: Students who have successfully completed CHI414 Primary Practice V: Diagnosis and Pharmacology cannot enrol in this unit for credit.

### Primary Practice VI: Pharmacology (CHI447)

As for CHI446 except:

Credit Points: 3

Not available this year

### Principles and Practice of Neuromusculoskeletal Rehabilitation (CHI681)

Credit Points: 4

Not available this year

Introduction to principles and practice of neuromusculoskeletal rehabilitation, emphasising the biopsychosocial model and active care including consideration of the range of factors influencing clinical decision-making such as normal and abnormal function (physiology and pathophysiology), normal and abnormal biomechanics, structure (morphology), pathology, humanistic factors and patient/client assessment. Workshops highlight a practical approach to the physical performance evaluation, sparing strategies, stabilising strategies, assessment and management of muscle imbalance and facilitation of muscular agonist-antagonist co-activation by reflex stimulation methods.

External.

Prerequisites: Enrolment in the Master of Sports Science, Postgraduate Certificate in Neuromusculoskeletal Rehabilitation or Postgraduate Diploma in Neuromusculoskeletal Rehabilitation, or with the permission of the Academic Chair.

### Principles and Practices in Early Childhood Education (EDN355)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit addresses theories of play and development, learning, and pedagogy for young children in the early years of schooling. It offers a theoretical base alongside practical applications for students to develop their skills as early years educators and a philosophy of early childhood pedagogy.

Lectures: Onine podcasts; workshops: 11 x 2 hours

Prerequisites: Successful completion of BED150/EDN112/EDN1121 Understanding Teachers' Work, and successful completion of or co-enrolment in EDN208/EDN221 Learning and Teaching.

Exclusions: Students who have successfully completed EDN320/EDN3201 Principles and Practices in Early Childhood Education or EDU322/EDU3221 Principles and Practices in Early Childhood Education may not enrol in this unit for credit.

External students have weekly tasks to complete online.

### Principles of Business Governance (MBS518)

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

This unit provides an overview of the multifaceted governance framework of business in Australia. It gives an introduction to the governance requirements relevant to business within an Australian context with particular reference to business transactions, ethical and fair business practices, the establishment and operation of business associations, including partnerships and corporations, and the rights, duties and obligations of various stakeholders in these business associations.

This unit will be run as a 3 hour weekly seminar consisting of 1-1.5 hour lecture and 1-1.5 hour tutorial, 36 hours.

Self-directed on-line learning activities as directed = 30 hours

Readings: 2 hours per session = 24 hours  
Workshop preparation 1 hour = 12 hours

Prerequisites: Enrolment in Master of Professional Accounting

Exclusions: Students who have completed MBS502 Law for Business/MBL502 Law for Business AND MBS509 Company Law/MBL509 Corporations and Securities Law may not enrol in this unit for credit.

This unit is not recommended to be taken by students in their first semester of enrolment.

### Principles of Commercial Law (BUS165)

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit introduces students to the Australian legal system, its operation and development, and to the principles of law applicable to core areas of business, such as contract law, tort law and agency law. Students studying Business will usually find this unit essential and prerequisite to further studies.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students enrolled in Bachelor of Laws in Law (LLB). OR who have successfully completed BSL165 Principles of Commercial Law may not enrol in this unit for credit.

### Principles of Computer Science (ICT104)

Credit Points: 3

DUBAI-ISC: TJD-internal, TMD-internal

This unit is designed to develop the skills of problem solving and program design using the Java programming language. Major topics: algorithm design; procedural abstractions; the use of libraries as collection of black-box code modules; the concepts of pre- and post-conditions; strings, arrays, introduction to object-oriented concepts including data abstraction, encapsulation, classes and object references, inheritance; introduction to recursion; streams and file input and output; the definition and use of common classes -- lists, stacks and queues.

Lectures: 2 hours per week; computer laboratories: 2 hours per week.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the lab exercises for that week. In addition, each student is required to complete two assignments and sit the final examination.

Prerequisites: ICT102 Introduction to Computer Science or ICT159 Foundations of Programming. External enrolment is restricted to students with independent access to adequate computing facilities and software or to students with access to the campus computers by attendance.

### Principles of Computer Science (ICT167)

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit is designed to develop the skills of problem solving and program design using an Object Oriented programming language. Major topics: algorithm design; procedural abstractions; the use of libraries as collection of black-box code modules; the concepts of pre- and post- conditions; strings, arrays, introduction to object-oriented concepts including data abstraction, encapsulation, classes and object references, inheritance; introduction to recursion;

streams and file input and output; the definition and use of common classes - lists, stack and queues.

Lectures: 1 x 2 hours per week; computer laboratories: 1 x 2 hours per week.

The companion tutorial/lab session will consist of small programming exercises and/or other tasks that the students need to complete to enforce their understanding of the concepts covered in the topic and to master the relevant design and programming techniques. These small exercises are also designed to provide incremental help for the two assignments. In order to assess a small subset of the learning outcomes, each laboratory exercise will require the development of a solution for a small problem.

Prerequisites: ICT159 Foundations of Computer Programming or ICT102 Introduction to Computer Science.

Exclusions: Students who have completed ICT104 Principles of Computer Science may not enrol in this unit for credit.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the lab exercises for that week. In addition, each student is required to complete two assignments and sit the final examination.

### Principles of Counselling 1 (CSL582)

Credit Points: 6

MURDOCH: S1-internal  
MANDURAH: S2-internal

Being a counsellor is a lifelong process of learning, professional and personal growth. The aims of this unit are to expand students' knowledge of the field of counselling skills, and introduce students to major theoretical frameworks for understanding human nature and causes of human distress, with particular attention on relational approaches to counselling and psychotherapy. This unit is a thorough introduction to the practice of counselling and the basis for all other coursework in the programs.

Murdoch campus: Lectures/seminars: 3 hours; Tutorials: 2 hours per fortnight

Mandurah campus: This unit is offered on an intensive schedule on the Mandurah campus and will meet for nine 4 hour lecture/seminars and six 2 hour tutorials. Meeting times are structured around the meeting times of CSL 566 enabling students to complete both units (9 credit points in total) through attendance on campus one day per week.

Prerequisites: Enrolment in the Graduate Certificate in Counselling, Graduate Diploma in Counselling, Graduate Diploma in Creative Arts Therapies or Master of Counselling or permission of the Counselling Academic Chair.

### Principles of Counselling 2 (CSL684)

Credit Points: 3

MURDOCH: S2-internal

This unit serves to further develop and strengthen essential counselling skills. Core elements include learning a broader range of advanced counselling skills, development and understanding of skills and interpersonal abilities required to engage in and maintain constructive therapeutic relationships, responding to client specificity, and managing the more challenging aspects in counselling. The unit also covers working with people of different cultures. At the end of the unit, students will be able to outline a well-informed philosophy of their counselling practice.

Lectures/seminars: 3 hours per week.

Prerequisites: Enrolment in the Master of Counselling and completion CSL679 Counselling: Placement and Supervision Group

1, or permission of the Counselling Academic Chair.

### **Principles of Electronic Instrumentation (ENG207)**

Credit Points: 3

MURDOCH: S2-internal

This unit offers students a background in analogue electronics and instrumentation so that students are able to select the most appropriate instrumentation system for a given engineering measurement and control problem. It covers diodes, bipolar junction transistors, field effect transistors and their small and large signals models. It considers differential and operational amplifiers, their ideal and non-ideal behaviour and instrumentation amplifiers. Applications are considered in signal conditioning, active filtering, oscillators, voltage and current regulation.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hour per week; laboratories: 1 x 2 hours per week.

Prerequisites: ENG125 Circuits and Systems I and MAS182 Applied Mathematics.

Exclusions: ENG262 Principles of Electronic Instrumentation.

### **Principles of Environmental Impact Assessment (ENV556)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit teaches the theories of Environmental Impact Assessment (EIA), focusing on the policy and procedures involved. The origin, history and continuing evolution of EIA are covered from the perspective of both Australian and international practice. The role of EIA as a planning and management tool along with strategic assessment are covered. The preparation and review of various EIA documents with an emphasis on international best practice and the political nature of environmental decision-making are covered.

Workshops: 4 x 1 day (8 hours) sessions.

Prerequisites: Enrolment in Bachelor Environmental Science or Bachelor Marine Science or Graduate Certificate in Environmental Assessment and Management or Graduate Diploma in Energy and the Environment or Master of Sustainable Development.

Exclusions: Students who have successfully completed ENV520 Principles of Environmental Impact Assessment may not enrol in this unit for credit.

### **Principles of Epidemiology (VET641)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit will provide students with the theoretical knowledge of epidemiology. It will cover an introduction to epidemiology and disease causation and analysis, evaluation and interpretation of: disease frequency measurements, patterns of disease, and diagnostic tests/assays.

Online discussions and workshops as required.

Prerequisites: Enrolment in Masters of Veterinary Studies (Veterinary Surveillance), Master of Veterinary Studies (Conservation Medicine), Doctor of Veterinary Medical Science, Master of Veterinary Clinical Studies, Master of Biosecurity or permission of the Academic Chair.

### **Principles of Finance and Banking (BUS140)**

Credit Points: 3

DUBAI-ISC: TMD-internal

This unit exposes students to the application of financial mathematics to various personal financial decisions including valuing debt, equity, and hybrid securities. In the process, characteristics of these securities are detailed and valuation incorporating the respective security's cash flows, time value of money and the associated risk are presented. The unit also addresses the principles of maximising shareholder wealth and firm value. The interplay between these principles is examined by consideration of information asymmetry between the different stakeholders.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

### **Principles of Health Informatics (SWM533)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Health Informatics is an ever changing scientific discipline concerned with the management of healthcare data, information and knowledge. This field deals with resources, devices and formalised methods for optimizing the storage, retrieval and management of biomedical information for problem solving and decision-making. This Unit provides foundational knowledge to examine a range of information systems currently applied in delivering health care with the view to improve medical quality, patient safety, educational resources and patient - physician communication.

Lectures/seminars/workshops: 3 hours per week.

Indicative student workload:

\* Timetabled activities: 3 hours/week

\* Readings/Self-directed study: 4 hours/week

\* Assessment: 3 hours/per week

Prerequisites: Enrolment in a graduate-level course.

### **Principles of Human Resources Management (BUS297)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TSA-internal

This unit introduces students to the function of human resources management within the organisation. It aims to give students an understanding of how effective implementation of human resource management practice offers benefits to both the organisation and the individual. Topics covered will include the historical development of the human resources movement; the relationship between human resources and other organisational functions; factors affecting recruitment and selection decisions; and tools used to manage staff performance.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS176 Foundations of Management and Governance or BUS145 Principles of Management

Exclusions: Students who have successfully completed BUS320 Advanced Human Resource Perspectives cannot enrol in this unit for credit.

### Principles of Infectious Disease I - Veterinary Microbiology (VET211)

Credit Points: 3

MURDOCH: S2-internal

This unit will provide basic knowledge and practical skills in microbiology relating to infectious diseases of animals. A generalist and integrated approach to pathogenic microbiology is adopted, but includes separate sections on bacteria and viruses. Sections comprise an introduction to features of pathogenic micro-organisms including structure, metabolism, genetic composition, culture and identification. Emphasis is given to the mechanisms causing disease and to principles of diagnosis and control.

Lectures: 3 x 1 hour per week; laboratories: 1 x 3 hours per week (Lab 1 - 2 hours; Lab 2 - 1 hour); workshops: 1 x 3 hours per week in weeks 1 and 2 in place of laboratories.

Prerequisites: Enrolment in BSc (Veterinary Biology)/Doctor of Veterinary Medicine or BSc Animal Health or Animal Science major. Successful completion of BIO152 Cell Biology/Foundations of Cell Biology.

### Principles of Infectious Disease II - Veterinary Parasitology (VET278)

Credit Points: 3

MURDOCH: S2-internal

This unit in applied parasitology introduces the concept of parasitism and the diversity of parasitic organisms. The life cycles and transmission patterns of the major parasites of domestic animals in Australia are described. The interaction between hosts and parasites, leading to the disease, is covered in detail, as is the treatment of parasitic disease and the development of integrated approaches to parasite control. Special attention is given to the diagnoses of parasitic disease in livestock and companion animals.

Lectures: 1 x 3 hours per week; Laboratory session: 1 x 3 hours per week.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; successful completion of all BSc (Veterinary Biology)/DVM Part I units, or accepted equivalents. Enrolment in the BSc (Animal Health); successful completion of VET272 Comparative Mammalian Biochemistry.

### Principles of Information Systems (ICT107)

Credit Points: 3

DUBAI-ISC: TMD-internal

This unit provides an introduction to the principles of information systems and informatics. The broad themes underpinning the information systems discipline are explored, including communication, representation, recording, problem solving, decision making, and systems theory; and the organisational and technical contexts essential for the design and development of information systems are covered. Tutorial and practical sessions complement the theory material.

Lectures: 2 hours per week; tutorials: 2 hours per week (1 hour unsupervised).

Prerequisites: Nil.

### Principles of Management (BUS145)

Credit Points: 3

DUBAI-ISC: TJD-internal, TSD-internal

This unit provides an introduction to the discipline and practices of management. Weekly workshops assist in generic skill development for business research, writing, analysis and oral

presentations. Exercises, feedback and discussion in a supportive group environment emphasise techniques to develop individual skill acquisition and provide opportunities to experience how management practices operate within organisations. Weekly lectures will address topics such as business ethics, planning, decision making, contemporary management challenges, leadership, motivation, and approaches to control.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have successfully completed BUS176 Foundations of Management and Governance may not enrol in this unit for credit.

### Principles of Marketing (BUS169)

Credit Points: 3

DUBAI-ISC: TMD-internal

This unit provides an appreciation of how marketing relates to business, society and government. As the base Marketing unit, it introduces students to the marketing organisation and planning process, marketing research and information gathering methods and some of the analysis tools marketers use. Unit topics include the marketing function, the marketing organisation, marketing information systems and buyer behaviour - offline and online. The unit describes the importance of marketing to the strategic planning of an organisation.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

Exclusions: Students who have successfully completed C213/TOU213 Tourism Marketing or BUS183 Foundations of Marketing may not enrol in this unit for credit.

### Principles of Mineral Processing (ENG324)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit covers the main aspects of mineral processing including sampling, particle characterisation, comminution and classification, physical processes of mineral concentration involving dense media and gravity separation, magnetic and electrostatic separation and ore sorting techniques. Processes such as coagulation, flocculation, agglomeration, dewatering of concentrates and tailings disposal are covered as well as froth flotation of minerals. Together with the units in pyrometallurgy and hydrometallurgy, this unit helps students to integrate the individual unit operations in a typical process flow sheet.

Lectures: 1 x 2 hours per week; lecture/workshop: 1 x 2 hours per week; laboratories: 2 hours per week.

Field trips to local mine sites. Students are required to write a brief report on their site visits.

Prerequisites: ENG193 Introduction to the Minerals Industry, ENG202 Engineering Thermodynamics, ENG205 Process Mineralogy and ENG224 Principles of Unit Operations or approval by the Unit Coordinator.

Exclusions: Students who have successfully completed the unit EXM301 Mineral Processing may not enrol in this unit for credit.

**Principles of Physics (PEN152)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit covers the principles of classical physics, which relate to engineering and metallurgy as well as physical, biological and health sciences. Content: motion in one and two dimensions, force, Newton's Laws, work, energy, momentum, non linear oscillatory and circular motion, hydrostatics, flow rates, electricity, DC circuits, magnetism.

Lectures: 3 hours per week; workshops: 2 hours per week; laboratories: 5 laboratories at 3 hours each.

Prerequisites: Concurrent enrolment in MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; plus a final scaled score of 60% or more in WACE Physics 3A/3B or a pass in PEC/PEN120 General Physics.

Exclusions: Students may not enrol in this unit and PEC120/PEN120 General Physics concurrently. Students who have successfully completed PEC152 Principles of Physics may not enrol in this unit for credit.

Students who have completed previous physics not listed in the prerequisites above should consult the Academic Chair for clarification of their enrolment.

Students who have completed previous mathematics not listed in the prerequisites above should consult the Academic Chair for clarification of their enrolment requirements.

**Principles of Process Engineering (ENG298)**

Credit Points: 3

MURDOCH: S1-internal

In this unit students implement the knowledge gained in basic sciences to engineering applications through drawing flowcharts of a process, performing mass and energy balance calculations and applying these steps to industrial cases. Enhancement of problem solving skills is a major emphasis throughout this unit.

Lectures: 1 x 3 hours per week; workshops: 1 x 2 hours per week.

Prerequisites: MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; CHE140/PEC140 Introduction to Chemistry or CHE144/PEC144 Chemical Principles or ENG192 Energy, Mass and Flow.

**Principles of Surgery and Anaesthesia (VET301)**

Credit Points: 3

MURDOCH: S2-internal

This unit explores the fundamentals of surgery and anaesthesia and builds on the basic concepts of aseptic surgical technique, basic surgical principles and technique, pharmacology and administration of tranquilisers, analgesic and anaesthetic agents, principles of anaesthesia equipment and breathing systems, physiology of pain and pain assessment. Basic concepts are applied to clinical scenarios which help to illustrate principles. Laboratory classes will develop essential practical skills, mastery of which is required for progression into subsequent surgery classes.

Lectures: 3 x week; Laboratories: 1 x 3 hours per week per student.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of VET210, VET211, VET260, VET271, VET272, VET273, VET274, VET278, VET375 and VET331.

**Principles of Unit Operations (ENG224)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Main focus: General principles of unit operations which form the basis for mineral processing and extractive metallurgical plants including: mass and energy balances, elementary fluid mechanics and aspects of mass, energy and momentum transfer relevant to the above industries. Aspects of fluid flow phenomena, transportation and metering of fluids, agitation and mixing of liquids and pulps, principles of diffusion and mass transfer in liquids, pulps and between phases, and heat transfer processes will be considered and demonstrated using the laboratory component.

Lectures/tutorials: 4 hours per week; laboratories: 2.5 hours per week.

External: Internet access and compulsory 5-day on-campus laboratory and workshop session. Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

External students will require Internet access and be required to attend a compulsory 5-day on-campus laboratory and workshop session.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; PEC152/PEN152 Principles of Physics or high school physics.

Exclusions: Students who have successfully completed ENG277 Process Engineering may not enrol in this unit for credit.

**Principles of Wildlife Health (VET604)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit will introduce students to core applied concepts required to undertake wildlife health investigations, including legislation and legal frameworks for wildlife health activities, animal welfare and euthanasia, handling and restraint techniques, and diagnostic sampling. Focus will be on the differences across taxa including mammals, reptiles, birds and amphibians. Students will also gain an understanding of the human health and safety issues associated with wildlife health investigations.

Tutorials: 1 x 2 hours per week for internal students. Online discussion and lectures for external students.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

**Private Sector and Development (SWM652)**

Credit Points: 3

Not available this year

Increasingly, governments and development agencies are turning to the private sector to mobilise resources to promote social, economic, and political development and alleviate poverty. While this approach appears to provide significant new opportunities for development, it also creates new challenges. This unit will consider the role of the private sector in development and critically assess the contribution this makes along with the challenges it presents to states, development agencies and poor communities

Lectures/workshops: 4 hours per week over 6 weeks (24 hours in total).

Readings, self-directed study and assignment preparation.

Prerequisites: Enrolment in a graduate level course

### Probability and Statistical Inference (MAS222)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines relevant topics in probability and statistics theory, including distribution theory, mathematical expectation and variance, and likelihood inference. It derives common probability distributions and illustrates their uses, provides insight into the forms of expected values and variances for various distributions, and introduces likelihood inference, which provides a unified framework that underpins much of statistical inference.

Lectures: 3 x 1 hour per week; tutorials: 1 x 1 hour per week.

Prerequisites: MAS180 Introduction to Statistics OR MAS183 Statistical Data Analysis OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management. In addition, students must have a calculus background equivalent to at least MAS182 Applied Mathematics.

Exclusions: Students who have successfully completed MAS278 Probability and Statistical Inference may not enrol in this unit for credit.

### Process Control and Safety Systems (ENG446)

Credit Points: 3

MURDOCH: S1-internal

This unit is one of two complementary units in the Instrumentation and Control Engineering course. It provides further experience in operating a pilot plant, with emphasis upon the subsystems and processes which make up an entire process control system. Some of these include startup, shutdown and emergency procedures and sequences; alarms, management and rationalisation; instrumentation systems, intrinsic safety, safety controllers and systems. An important aspect of this unit is site visits to working industrial plants, to put the material into perspective.

Lectures/workshops: 1 x 4 hours per week.

Prerequisites: ENG303/308 Advanced Process Engineering  
ENG304/309 Process Control Engineering I  
ENG346/322 Process Control Engineering II

### Process Control Engineering I (ENG309)

Credit Points: 3

MURDOCH: S1-internal

This unit develops skills and practical experience in the control of process oriented systems. Specific topics include process models; high order, inverse response, time-delay and non-linear systems and control; disturbances, variable operating conditions; frequency response; theoretical process modelling; process identification; complex control structures, feedback, feed-forward and cascade systems; internal model control. Simulink, MATLAB and LabView are used extensively in problem solving, simulations and measurement/control.

Workshop 1 x 2hour session per week Laboratory 1 x 2hour session per week

Workshops and Laboratories to be conducted in PS2.026

The specialised instrumentation and control facility (PS2.026) can be used 24/7. Students are encouraged to use the facility to learn, build and practise the required laboratory and computer based skills and knowledge.

Prerequisites: ENG294 Discrete Time Systems and ENG299 Control

Systems and Process Dynamics

OR

ENG267 Control Systems and Process Dynamics; ENG241 Principles of Process Engineering.

### Process Control Engineering II (ENG322)

Credit Points: 3

MURDOCH: S2-internal

This unit introduces further concepts in control design and implementation. A number of control design methodologies will be studied as part of this unit and their implementation into Engineering facilities and a complex simulation case study will be investigated. Important issues around modelling, performance, efficiency and safety of operation are integrated into the project. Communication and team work are important attributes that students would be expected to develop.

Lectures: 1 x 2 hours per week; workshop 1 x 2 hours per week; laboratory: 1 x 2 hours per week.

Workshops and Laboratories to be conducted in PS2.026; Laboratory to be conducted in Pilot Plant EE2.009/10.

The specialised instrumentation and control facility (PS2.026) can be used 24/7. Students are encouraged to use the facility to learn, build and practise the required computer based skills and knowledge. The Pilot Plant (EE2.009/10) facility will be used for extra work.

Prerequisites: ENG298/ENG241 Principles of Process Engineering; ENG294 Discrete Time Systems and ENG299/ENG267 Control System and Process Dynamics.

### Process Mineralogy (ENG205)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This mineralogy unit is directed towards the needs of extractive metallurgists. It focuses on the characterisation of minerals and materials encountered during mineral processing and metal extraction. It draws upon principles of crystallo-chemistry, and physical chemistry. The mineralogy of principal ores is illustrated and discussed. Practical work provides opportunities to develop technical skills of mineral identification, information access and communication. Mineralogical sciences are increasingly important for mining industry due to complexity of ores and sophisticated technology of metal recovery.

Lectures: 1 x 2 and 1 x 1 hours per week; Laboratories: 1 x 2 hours per week.

Prerequisites: EXM130 Introduction to Earth Science or ENG193 Introduction to the Minerals Industry.

Exclusions: Students who have successfully completed the unit EXM256 Advanced Mineral Processing may not enrol in this unit for credit.

### Process Unit Operations (ENG524)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit incorporates aspects of process principles, mass/energy balance, fluid mechanics, momentum, mass and heat transfer to prepare students to study the units in Mineral Processing, Extractive Metallurgy, Water Treatment and Desalination. The unit addresses the main principles of unit operations which form the basis for mineral processing, extractive metallurgical, water treatment and desalination plants. Focus: mass and energy balances, basic fluid mechanics and key aspects of mass, energy and momentum transfer of fluids and slurries relevant to the above industries.

Lectures/tutorials: 4 hours per week.

Students will participate in a plant visit during the semester to appreciate the scale of industrial operations.

Prerequisites: Enrolment in G1034 Graduate Diploma in Extractive Metallurgy, G1076 Graduate Diploma in Water Treatment and Desalination, M1259 Master of Water Treatment and Desalination.

Exclusions: EXM224 Principles of Unit Operations

Students will be provided with laboratory data or plant data relevant to unit operations and the expectation is to present a brief report on the critical analysis of data for a specified outcome.

### Processes in Animal Disease (VET375)

Credit Points: 3

MURDOCH: S1-internal

This unit examines the fundamental processes of disease demonstrated by higher vertebrates, such as vascular disturbances, inflammation, necrosis, healing, adaptive changes and diseases of abnormal DNA processing. Students learn practical macroscopic and microscopic interpretation skills using case studies from the School's diagnostic pathology service. The relationships between gross change, histological change, the underlying pathological process and its implications for treatment and prognosis are emphasised. Clinical material will form the basis for problem-oriented learning and developing skills in scientific communication.

Lectures: 3 x 1 hours per week;

Gross and histopathology workshops: 1 x 2 hours per week;

Seminars: 4 per semester.

Prerequisites: Enrolment in Veterinary Biology; VET260 Veterinary Structure and Function I; VET271 Veterinary Structure and Function II; VET272 Comparative Mammalian Biochemistry; VET273 Veterinary Structure and Function III; VET 274 Veterinary Structure and Function IV.

This unit examines the fundamental processes of disease that are manifest by higher vertebrates, such as vascular disturbances, inflammation, necrosis and diseases of abnormal DNA processing. Students learn practical macroscopic and microscopic interpretation skills using case studies from the School's diagnostic pathology service. The relationships between gross change, histological change, the underlying pathological process and its implications for treatment and prognosis are emphasised. Clinical material will form the basis for problem-oriented learning and developing skills in scientific communication.

### Processes in Human Disease (CHI391)

Credit Points: 3

MURDOCH: S1-internal

Examines the fundamental processes of disease including thrombosis, cardiovascular disturbances, inflammation, cell and tissue death, and diseases of abnormal DNA processing such as neoplasia and inherited conditions. Provides an understanding of mechanisms by which disease is produced and aims to empower you with the knowledge to understand new developments in disease and to be able to communicate with other health professionals regarding pathology matters. Students learn practical macroscopic and microscopic interpretation skills and the relationship between gross and histological change.

Lectures: 3 hours per week; Practical (gross pathology and histopathology): 2 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2.

### Processes, Simulation and Instrumentation (ENG563)

Credit Points: 3

MURDOCH: S1-internal

This unit provides the foundations to understand a range of basic processes and the instrumentation which is used in a typical process control system. Although the unit deals with some physical systems, there is an emphasis on process modelling and simulation by studying a range of simple process oriented systems.

Lecture/Workshop: 1 x 6 hours per week in specialised facility.

Prerequisites: Enrolment in Master of Engineering or Graduate Diploma in Engineering.

Students will require an undergraduate physics/engineering level of knowledge in heat, flow and energy fundamentals.

### Production Animal, Public Health and Pathology (VET687)

Credit Points: 3

Not available this year

This unit covers the application and practice of: production animal health and management; veterinary public health (the prevention and control of animal and human diseases to promote good health); anatomic pathology (clinical diagnosis and investigation of lesions in gross and histopathological mammalian and avian specimens) and clinical pathology (converting laboratory data into clinically useful information to identify pathological changes in a patient).

### Production Animal, Public Health, Pathology (Anatomical and Clinical) Core Clinical Rotation (VET587)

Credit Points: 3

MURDOCH: YMV-internal

This unit covers the application and practice of: production animal health and management; veterinary public health (the prevention and control of animal and human diseases to promote good health); anatomic pathology (clinical diagnosis and investigation of lesions in gross and histopathological mammalian and avian specimens) and clinical pathology (converting laboratory data into clinically useful information to identify pathological changes in a patient).

Contact time 6 weeks. Students are taught in small groups and the unit is repeated throughout the year.

Prerequisites: VET419, VET451, VET453, VET454, VET455, VET457, VET458, VET463 and VET459.

### Production Development (SCR222)

Credit Points: 3

MURDOCH: S2-internal

This unit is a guided creation and development process for students who wish to make traditional drama and documentary productions. The main areas of attention are directing and producing at the development stage of pre-production. A thorough knowledge of the workings of these is vital for any student wishing to create screen productions for any purpose, though for Screen Production students it will also support the conceptualisation and preparation of films for their final year capstone unit: Advanced Screen Production.

Workshops: 2.5 hours per week over 10 weeks.

Prerequisites: SCR101 Screen Production 1 or MCC128 Screen

## Production I

Exclusions: Students who have successfully completed MCC312 Media Projects may not enrol in this unit for credit.

**Professional Development (SCR312)**

Credit Points: 3

MURDOCH: S1-internal

This unit is designed as a precursor to the capstone unit: Advanced Screen Production. Its focus is to extend the practical and creative skills developed in earlier screen production units by completing focussed, advanced exercises in craft specific workshops. These workshops are often designed and run by industry professionals. Each student will choose a module from a range of screen production crew roles, such as editing, cinematography, sound, and others as initiated by the Unit Coordinator.

Workshops: 1 x 2.5 hours per week for 12 weeks.

Prerequisites: MCC226 Screen Production 2 or SCR201 Screen Production 2 or SCR304 Documentary Production

Exclusions: Students who have successfully completed MCC201 Professional Development in Screen Production may not enrol in this unit for credit.

**Professional Development in Screen Production (MCC201)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

In this unit students extend the practical, creative and craft skills developed in earlier screen production units by completing exercises in tutorials that are often designed and run by industry professionals. Each student will choose two 6-week modules from a range of screen production crew roles, such as, direction, producing, editing, cinematography, sound and others as initiated by the unit coordinator.

Lectures: none; workshops: 3 hours per week.

Prerequisites: MCC226 Screen and Sound Production II (or MED226 Screen and Sound Production II or MED226 Screen Production II).

**Professional Development Portfolio (EDN618)**

Credit Points: 3

MURDOCH: S1-external  
DUBAI-ISC: TMD-internal

This unit is designed to enable professionals working in a variety of educational, community or business settings to develop a professional learning portfolio. The purpose of the portfolio may include: (1) building upon previous or current professional development work; (2) documenting evidence of professional learning for registration, promotion, etc; or (3) documenting the practice of an IB-experienced teacher. Participants reflect in a structured way on how they have extended their understanding through these professional activities or practices

Lectures and discussion (internal) over the semester.

120 -150 hours of reading, discussion and self directed activities.

Prerequisites: Enrolment in an education course and participation in a substantial professional development program in recent years, or permission of the Unit Coordinator.

Exclusions: EDU618 / EDN518 Professional Development Portfolio

**Professional Experience in a Long Day-care Centre (EDN239)**

Credit Points: 3

Not available this year

This two-week placement typically occurs in the Summer teaching period at the commencement of second year of the Bachelor of Education (Early Childhood and Primary). The 10-day placement provides opportunities for pre-service teachers to strengthen the nexus between theory and practice under the guidance of a mentor educator. The focus of this placement is the implementation of an integrated learning programme that demonstrates a holistic approach to teaching and learning when working with children aged birth- 2years.

Two seminars held in flat teaching venue (prior and after the practicum). Each seminar will be two hours in duration. Seminar details will be advised in the unit LMS.

Students will undertake a 10 day practicum (6-7 hours per day) in an Australian Long Day-care Centre.

Prerequisites: Enrolment in BEd Early Childhood and Primary (B1319). Students must have successfully completed EDN111 Language and Learning for Teaching, BED150 Understanding Teachers Work and EDN168 Nurturing Creativity in the Early Years.

Prior to placement in any Long Day-care Centre for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Experience in Early Childhood Education: Graduate (EDN500)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

Students will complete a professional experience in a school-based early childhood classroom with children aged four-five years. This experience will give students the opportunity to develop further expertise in the early childhood education field.

Professional Experience placement of 6 weeks full-time or 10 weeks part-time (3 days per week) in an Australian mainstream school.

Prerequisites: Enrolment in the last semester of Graduate Diploma of Education Studies or Graduate Certificate in Inclusive Education or Graduate Certificate in Early Childhood Education or Graduate Diploma in Education (Early Childhood Education and Care) or Early Childhood Education courses; successful completion of EDN520 Advanced Principles and Practices in Early Childhood Education. Students must have both a current WA Department of Education National Criminal History Record Check and a Working with Children (Criminal Record Checking) Act 2004 clearance from the Department of Community Development on file in the Murdoch University School of Education Professional Experience office prior to commencing this unit.

Exclusions: Students in the BEd (Secondary), BEd (Primary), GradDipEd (Secondary) or GradDipEd (Primary) course should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances. Information and forms regarding these mandatory requirements



can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before the placement can be arranged.

### **Professional Experience in Early Learning and Care Centres: Graduate (EDN536)**

Credit Points: 6

MURDOCH: ST2-placement, ST4-placement

Students will complete a professional experience in a Long Day-care Centre with children aged birth - five years. This experience will give students the opportunity to develop further expertise in the early childhood education and care professional context.

Professional Experience Placement of 6 weeks full-time or 10 weeks part-time (3 days per week) in an Australian Long Day-care Centre.

Prerequisites: Enrolment in the Graduate Diploma in Education (Early Childhood Education and Care). Students must have both a current WA Department of Education National Criminal History Record Check and a Working with Children (Criminal Record Checking) Act 2004 clearance from the Department of Community Development on file in the Murdoch University School of Education Professional Experience office prior to commencing this unit.

Exclusions: Students in the BEd (Secondary), BEd (Primary), GradDipEd (Secondary) or GradDipEd (Primary) should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before the placement can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience in Early Learning Centres (EDN539)**

Credit Points: 3

MURDOCH: ST2-placement, ST4-placement

Students will complete a professional experience in an early years Long Day-care Centre with children aged birth-three years. This experience will give students the opportunity to develop further expertise in the early childhood education and care professional context.

Professional Experience Placement of 6 weeks full-time or 10 weeks part-time (3 days per week).

Prerequisites: Enrolment in the Graduate Diploma in Early Childhood Education and Care. Students must have both a current WA Department of Education National Criminal History Record Check and a Working with Children (Criminal Record Checking) Act 2004 clearance from the Department of Community Development on file in the Murdoch University School of Education Professional Experience office prior to commencing this unit.

Exclusions: Students in the BEd (Secondary), BEd (Primary), GradDipEd (Secondary) or GradDipEd (Primary) should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements

can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before the placement can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: BEd Secondary (EDN305)**

Credit Points: 3

MURDOCH: S1-internal

This semester long unit includes a 10-day block placement in the students' Teaching Area B, unless students have one Teaching Area only, whereby they will then complete the placement in that Teaching Area. Online tasks are to be completed before and after the professional experience. A preparatory meeting is held prior to the professional experience.

Placements in this unit must be undertaken in the Perth metropolitan area.

Online tasks, 10-day block placement in a school and one meeting before the placement is to be undertaken.

Prerequisites: Enrolment in a Bachelor of Education Secondary Teaching; successful completion of EDN2101 Professional Experience: BEd Secondary Teaching. Students must be currently enrolled in or have successfully completed the relevant Curriculum unit to be eligible for this placement in schools.

Exclusions: Students who have successfully completed EDN3101 Professional Experience: BEd Secondary are not permitted to enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: BEd Secondary (EDN410)**

**As for EDN4101 except:**

Credit Points: 3

MURDOCH: S1-external

10 distributed day placement and one meeting before the placement is to be undertaken.

Prerequisites: Students must be enrolled in a Bachelor of Education Secondary Teaching.

Exclusions: Students who have successfully completed EDN4101 Professional Experience: BEd Secondary OR EDN4103 Professional Experience: BEd Secondary HPE may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Experience: BEd Secondary (EDN4101)**

Credit Points: 2

Not available this year

This unit typically occurs in the fourth year of BEd Secondary. It is a semester unit including a 10-distributed-day-placement in student's Learning Area A. To develop learning, online tasks are to be completed during the semester. An information meeting will be held prior to the professional experience. After EDN410, students are usually placed in the same school for FPE 1&2, so they know their school and what they will be teaching in their final placement.

10 days full-time block placement.

Prerequisites: Enrolment in a Bachelor of Education (Secondary) course and successful completion of EDU101/EDU1011 Introduction to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work as well as successful completion of EDU3163/EDN2101 School Experience: Secondary BEd or EDN3101 Professional Experience: BEd Secondary plus successful completion or concurrent enrolment in relevant curriculum major unit.

Exclusions: Students in the GradDipEd (Secondary) should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Students enrolled internally and externally MUST complete this school experience in the Perth metropolitan area.

Students who fail this unit must gain permission from the Academic Chair to progress.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Experience: BEd Secondary (HPE) (EDN4103)***As for EDN4101 except:*

Credit Points: 2

Not available this year

10 days distributed placement over Semester 1.

Prerequisites: Enrolment in Education (BEd) [Primary, 1-10 Health and Physical Education] and successful completion of EDU101/EDU1011 Introduction to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work as well as successful completion of EDN2102 School Experience: Secondary BEd and EDN3100 School Experience: Primary plus concurrent enrolment in relevant curriculum unit EDN419 Health and Physical Education and the Curriculum (Major).

Exclusions: Students in the GradDipEd (Primary) or the Secondary Teaching HPE and Sports Science should not enrol in this unit.

EDN4103 is a 10 day placement distributed across the S1 teaching period.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Experience: BEd Secondary Teaching (EDN2101)**

Credit Points: 3

MURDOCH: S2-external

This unit typically occurs in the second year of study in a Bachelor of Education, Secondary. It is a semester long unit that includes a 10-day block placement. It enables PSTs to contextualise theory within practice under the guidance of an experienced mentor. Online tasks are to be completed before and after the professional experience. In addition to this, a meeting will be held prior to the professional experience.

Weekly online tasks, 10-day block placement in a school and one meeting prior to the placement is to be undertaken.

Prerequisites: Successful completion of EDN221/EDN208 Learning and Teaching; and concurrent enrolment in or completion of BED200 Assessment and Action Research.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Experience: English in Practice (EDN2104)**

Credit Points: 3

MURDOCH: S2-placement

This unit typically occurs in the second year of study in a Bachelor of Education. The semester long unit incorporates a compulsory two-week Perth-based placement enabling students to contextualise theory and practice under the guidance of an experienced WA mentor teacher. Students will complete set tasks before, during and after the 10 day placement. The Australian Professional Standards for Teachers (Graduate Level), Murdoch Graduate Attributes, English Curriculum and General Capabilities frame the unit outcomes and expectations.

This unit requires a compulsory two week full-time Perth-based block placement.

Prerequisites: Enrolment in BEd (Primary), BEd (Early Childhood and Primary), BEd (Early Childhood 0 - 8), BEd (Primary, Years 1 to 10 Health and Physical Education), BEd/BA (Australian Indigenous Studies), BEd (Secondary) or BEd Primary Graduate (Two Years). Successful completion of EDN235/EDN223 Teaching English and Literacy in Primary Schools and EDN221 Learning and Teaching plus concurrent enrolment in BED200 Assessment and Action Research.

Concurrent enrolment in EDN236 Teaching The Arts in Primary Schools and EDN248 Teaching Health and Physical Education in Primary Schools is strongly recommended.

Exclusions: Students enrolled in the GradDipEd (Primary) or GradDipEd (Secondary) should not enrol in this unit.

Students who have successfully completed EDN2100 Professional Experience: BEd Primary may not take this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements

can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged. Students enrolled internally and externally MUST complete this school experience in the Perth metropolitan area. Students who fail this unit must gain permission from the Academic Chair to progress.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Graduate Diploma Secondary (EDN514)**

Credit Points: 3

MURDOCH: ST2-placement

Students undertake a 10-day block of school-based experience focusing on teaching their specialist curriculum area(s). This is an opportunity to try a variety of techniques and approaches in a classroom context under the guidance of a Mentor Teacher. Students must complete this professional experience in the Perth metropolitan area.

Seminars: 1 x 2 hours prior to placement.

10 days full-time block placement in a school and one meeting before the placement is to be undertaken.

Prerequisites: Enrolment in Graduate Diploma of Education (Secondary) course; successful completion of EDN550 Transition to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching.

Exclusions: Students who have successfully completed EDN2161 Professional Experience: Secondary Graduate Diploma may not enrol in this unit for credit. Students in the BEd (Secondary) course should not enrol in this unit but rather in either EDN3101 School Experience: BEd Secondary as recommended in the course structure.

Students are required to have completed or be enrolled concurrently in their minor curriculum unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Integrated Curriculum in Practice (EDN310)**

Credit Points: 3

MURDOCH: ST3-placement

This two-week school placement typically occurs in second year of the Bachelor of Education (Early Childhood 0-8). The 10-day placement provides opportunities for pre-service teachers to strengthen the nexus between theory and practice under the guidance of a qualified early childhood mentor teacher. The Australian Professional Standards for Teachers and Murdoch Graduate Attributes frame the outcomes. The focus of this placement is the implementation of an integrated learning program that demonstrates a holistic approach to teaching and learning.

Two seminars held in designated teaching venue (prior and after the practicum).

10 days practical held in an early years classroom (Kindergarten to Year 2).

Prerequisites: Successful completion of EDN461 Language and Literacies in the Early Years and EDN462 Mathematics and Numeracy in the Early Years.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Mathematics in Practice (EDN3102)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

The semester long unit includes a 10-day professional experience, which enables students to contextualise theory and practice under the guidance of an experienced mentor teacher. Students will complete tasks and participate in a number of lectures and workshops before, during and after the placement. The Australian Professional Standards for Teachers (Graduate Level) and the Mathematics WA Curriculum: Mathematics frame the unit outcomes and expectations.

There will be four lectures and four two hour workshops throughout the semester. One of the lectures and workshops will be timetabled after the school experience in order to review and reflect on the professional experience. Please see the Unit Information and LMS for on-campus lecture and workshop dates. The Professional experience dates are to be found on the School of Education Calendar.

This unit requires a compulsory two week full-time block placement. A range of tasks will be completed before, during and after the placement.

Prerequisites: Enrolment in BEd (Primary), BEd (Early Childhood and Primary), BEd (Early Childhood 0 - 8), BEd (Primary, Years 1 to 10 Health and Physical Education), BEd/BA (Australian Indigenous Studies), BEd (Secondary) or BEd Primary Graduate (Two Years). Successful completion of EDN2104 Professional Experience: English in Practice and EDN351 Teaching Mathematics in Primary School.

Exclusions: Students who have successfully completed EDN3100 Professional Experience: BEd Primary may not take this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:  
<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Perspectives on Curriculum (EDN465)**

Credit Points: 3

MURDOCH: ST2-placement

This unit is a full-time 10-day block placement in a school that is undertaken in the students' major curriculum area. This professional experience enables students to contextualise theory under the

guidance of a school mentor. The AITSL standards frame the unit outcomes and expectations. Students must be currently enrolled in, or have successfully completed, the relevant major curriculum unit to be eligible for this placement in schools.

Students will participate in online activities through LMS including an Introductory lecture.

This is a 10 day full-time block placement.

Prerequisites: Enrolment in B1328/B1329 Bachelor of Education (Secondary Teaching Combined) and successful completion of EDU101/EDU1011 Introduction to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work and successful completion of, or concurrent enrolment in a relevant curriculum major unit, OR Enrolment in B1319 Bachelor of Education (Primary 1-10 HPE Major) and successful completion of EDU101/EDU1011 Introduction to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work as well as successful completion of EDN2104 Professional Experience: BE Primary plus successful completion of, or concurrent enrolment in, EDN419 or EDN464.

Exclusions: Students who have successfully completed EDN4103 may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### Professional Experience: Postgraduate (EDN5100)

Credit Points: 3

MURDOCH: ST2-placement (closed), ST3-placement (closed)

Students will complete a professional experience in a school. This experience will give students the opportunity to develop further expertise in their professional field.

Professional Experience placement of 6 weeks full-time or 10 weeks part-time (3 days per week).

Prerequisites: Enrolment in the last semester of Graduate Diploma of Education Studies or Graduate Certificate in Inclusive Education or Graduate Certificate in Early Childhood Education or Graduate Diploma in Early Childhood Education and Care or Early Childhood Education courses; EDN520 Advanced Principles and Practices in Early Childhood Education.

Students must have both a current WA Department of Education National Criminal History Record Check and a Working with Children (Criminal Record Checking) Act 2004 clearance from the Department of Community Development on file in the Murdoch University School of Education Professional Experience office prior to commencing this unit.

Exclusions: Students in the BEd (Secondary), BEd (Primary), GradDipEd (Secondary) or GradDipEd (Primary) course should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before the placement can be arranged.

### Professional Experience: Primary BEd (EDU3154)

Credit Points: 2

Not available this year

A two-week placement in a school which would typically occur in the fourth year of study in a Bachelor of Education or Bachelor of Education Graduate course. The 10-day placement provides opportunities for pre-service teachers to strengthen the nexus between theory and practice under the guidance of a Murdoch Supervisor. The Australian Professional Standards for Teachers (Graduate Level) and Murdoch Graduate Attributes frame the unit outcomes and expectations. The focus is on assessment strategies and literacy across the curriculum.

2 weeks full-time. Students will be attached to a school for this unit and if completing PIP and PI in the same year will probably return to the assigned school.

Prerequisites: Enrolment in BEd (Early Childhood and Primary) or BEd (Primary) or BEd (Primary)/BA (Australian Indigenous Studies) or BEd (Primary Graduate) and EDU101/EDU1011 Introduction to Teaching; successful completion of EDU3153 Primary Professional Experience or EDN3100 Professional Experience Primary and concurrent enrolment in EDU286 Primary Curriculum IV (Society and Environment, Science).

Exclusions: Students in the GradDipEd (Primary) should not enrol in this unit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### Professional Experience: Primary Graduate (EDN2151)

Credit Points: 2

MURDOCH: ST2-placement

A 10-day block placement in a school which typically would occur in the first semester of study in a GradDipEd (Primary). The 10-day experience enables students to contextualise theory under the guidance of a mentor teacher and university moderator. The Australian Professional Standards for Teachers (Graduate Level) and the Murdoch Graduate Attributes frame the unit outcomes and expectations. Students must be currently enrolled or have successfully completed the English and Mathematics curriculum units to be eligible for placement.

Placement unit and engagement in online forum.

Online weekly engagement

Prerequisites: Enrolment in a GradDipEd (Primary); successful completion of BED150/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching; concurrent enrolment in or completion of EDN2231/EDN235 Teaching English and Literacy in Primary Schools AND EDN3331 Teaching Mathematics in Primary Schools.

Exclusions: Students in the BEd (Primary) should not enrol in this unit, but rather in EDN2104 Professional Experience: English in Practice, and EDN3100 Professional Experience: Primary as recommended in the course structure.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

Students enrolled internally and externally MUST complete this school experience in the Perth metropolitan area.

Students who fail this unit must gain permission from the Academic Chair to progress.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Programming Across the Curriculum (EDN4100)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The unit typically occurs in the fourth year of study in a Bachelor of Education course. It incorporates a compulsory two-week placement in a school. Students complete tasks before, during and after the placement. The 10-day placement provides opportunities for pre-service teachers to strengthen the nexus between theory and practice under the guidance of an experienced mentor Teacher. AITSL standards frame unit outcomes and expectations.

Online participation - Assignment 1; two week block placement.-Assignment 2

Two week block placement in a school plus five additional days' attendance at the school - three days prior to and two days after block placement

If possible attendance at the school to take place on the first two days of School Term 1 (note that this is prior to the start of Semester 1)

Prerequisites: Successful completion of EDN3102 Professional Experience: Mathematics in Practice.  
Concurrent enrolment in or successful completion of EDN441 Teaching Humanities and Social Sciences in Primary Schools and EDN442 Teaching Science in Primary Schools.

Exclusions: Students who have successfully completed EDU3154 Professional Experience: Primary BEd may not enrol in the unit for credit

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Experience: Strategies for Effective Teaching (EDN567)**

Credit Points: 3

MURDOCH: ST4-internal, ST4-external

This unit is based on the practical application of topics and strategies explored in the co-requisite unit EDN568 Strategies for Effective Learning and Teaching. Pre-service teachers are expected to develop a series of lessons and to implement, evaluate and reflect on these lessons in terms of not only student outcomes, but their own practice as beginning teachers. In addition, students are also required to complete an action research ICT evaluation project whilst on professional experience placement.

Lectures: 2 x 1.5 hours (online); Professional Experience Debrief

workshops (face-to-face):

2 day Murdoch Campus

Monday 23 October - 09:30 - 15:30

Monday 11 December - 09:30 - 15:30

10 day block professional placement in a Primary School setting at the beginning of ST4.

1 day per week distributed placement for the remainder of ST4.

Prerequisites: Enrolment in the Master of Teaching (Primary). Successful completion of EDN5501 Transition to Teaching, EDN561 Learners and Learning Environments and EDN568 Strategies for Effective Learning and Teaching.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Professional Internship A: Differentiation within Diverse Contexts (EDN611)**

Credit Points: 3

MURDOCH: S1L-internal, S1L-external

The first unit of an internship in a primary school context. An on-campus induction is followed by a one-week block placement then one day a week until end of Term 1. A team-teaching approach to planning, teaching and assessment will be employed. The unit focus is catering for difference in relation to context, content and students. The internship provides opportunity for students to contextualise Semester 1 units.

Lectures/seminars: 2x 3 hours (induction in the first week (starting January 23 2017).

One 5-day block placement (30 hours). Work-integrated learning of 1 day per week for 9 weeks during School Terms 1 (54 hours).

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of all 500 level units.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Internship B: Research in Practice (EDN615)**

Credit Points: 6

MURDOCH: DE7-internal, DE7-external

This unit is the final unit of a professional internship for pre-service teachers enrolled in the Master of Teaching (Primary). It includes fieldwork, and on-campus workshops and meetings. Pre-service teachers will gradually take over full responsibility of the teaching/learning process during a block placement, and will link theories/theorists to the Seven Professional Standards and apply/reflect on this within their practice.

Workshops: 3 x 2.5 hours on campus.

Field work: 10-week Block Placement in a primary school during

7

School Term 2 (250 hours).

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of all 500 and 600 level units, with the exception of EDN617 Research Project.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### Professional Internship in Business (BUS358)

Credit Points: 9

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

This unit gives students the opportunity to consolidate their theoretical knowledge and develop their professional competence in the workplace. The learning experience takes place primarily outside the classroom with students having the opportunity to participate in real world business experiences related to their studies, supported by a business school academic supervisor and a workplace supervisor. Students who have completed the practicum unit will gain valuable Australian business experience which is likely to enhance their employability and prospects for promotion.

Up to 5 seminars at various points throughout the semester.

Placement within the host organisation is for a specified number of hours over the teaching period. Regular meetings are required with both the academic and workplace supervisors. Presentation sessions where students share their placement experiences with their peers and academic staff. Non-timetabled learning experiences are particularly important in this unit. The unit reading, preparation of assessment items and other out of class tasks involve independent guided scholarship and application of skills and knowledge with a high level of personal autonomy and accountability.

Prerequisites: Must be in final year of degree; GPA 2 or higher

Acceptance into the unit depends upon a demonstrated continuous high standard of academic performance and availability of academic and industry supervisors. Students intending to undertake an internship should make an appointment to see the Unit Coordinator before completing an expression of interest at <http://www.murdoch.edu.au/Work-Integrated-Learning/Students/Expression-of-interest/>

### Professional Internship in Business (BUS3581)

*As for BUS358 except:*

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

Up to 5 seminars at various points throughout the semester.

Placement within the host organisation is for a specified number of hours over the teaching period. Regular meetings are required with both the academic and workplace supervisors. Presentation sessions where students share their placement experiences with their peers and academic staff. Non-timetabled learning experiences are particularly important in this unit. The unit reading, preparation of assessment items and other out of class tasks involve independent guided scholarship and application of skills and knowledge with a high level of personal autonomy and accountability.

Acceptance into the unit depends upon a demonstrated continuous high standard of academic performance and availability of academic and industry supervisors. Students intending to undertake an internship should make an appointment to see the Unit

Coordinator before completing an expression of interest at <http://www.murdoch.edu.au/Work-Integrated-Learning/Students/Expression-of-interest/>

### Professional Internship in Business (BUS3582)

*As for BUS358 except:*

Credit Points: 6

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

Up to 5 seminars at various points throughout the semester.

Placement within the host organisation is for a specified number of hours over the teaching period. Regular meetings are required with both the academic and workplace supervisors. Presentation sessions where students share their placement experiences with their peers and academic staff. Non-timetabled learning experiences are particularly important in this unit. The unit reading, preparation of assessment items and other out of class tasks involve independent guided scholarship and application of skills and knowledge with a high level of personal autonomy and accountability.

Acceptance into the unit depends upon a demonstrated continuous high standard of academic performance and availability of academic and industry supervisors. Students intending to undertake an internship should make an appointment to see the Unit Coordinator before completing an expression of interest at <http://www.murdoch.edu.au/Work-Integrated-Learning/Students/Expression-of-interest/>

### Professional Internship Prelim: Prim BEd/Inclusive Ed (EDU383)

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Primary) course AND Inclusive Education

Exclusions: BEd (Primary) students who are not enrolled in Inclusive Education.

Enrolment in the relevant Professional Internship unit in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Internship Prelim: Primary BEd/ECE (EDU379)**

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Early Childhood and Primary) OR Bachelor of Education (Primary) course and Early Childhood minor.

Exclusions: BEd (Primary) students who are not enrolled in Early Childhood.

Enrolment in the relevant Professional Internship unit in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Internship Prelim: Primary GradDipEd (EDU291)**

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks of full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Graduate Diploma in Education (Primary) course. Students will be required to have successfully completed all the required units.

Exclusions: Students enrolled in the Bachelor of Education (Primary) should not enrol in this unit, but rather EDU377 Professional Internship Preliminary: Primary BEd.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Internship Prelim: Secondary BEd (EDU387)**

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks of full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Secondary) OR Bachelor of Education (Secondary)(Graduate) course. Students will be required to have successfully completed all the required units.

Exclusions: Students in the GradDipEd(Secondary) should not enrol in this unit but in EDU293 Professional Internship Prelim: Secondary GradDipEd.

Enrolment in the relevant Professional Internship unit in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Internship Prelim: Secondary GradDipEd (EDU293)**

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks of full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Graduate Diploma in Education (Secondary) course. Students will be required to have successfully completed all the required units.

Exclusions: Students in the BEd (Secondary) should not enrol in this unit, but rather in EDU387 Professional Internship Prelim: Secondary BEd.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Internship Preliminary: Primary BEd (EDU377)**

Credit Points: 2

MURDOCH: ST2-placement, ST3-placement

Students undertake a supervised three-week block of school-based placement in the school in which they will complete their Professional Internship. Students must successfully complete this preliminary component in order to proceed to the Professional Internship.

Three weeks of full-time block placement in a school.

One meeting will be held, prior to the Professional Experience, to explain the expectations and requirements of the Professional Experience.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Primary) course OR Bachelor of Education (Primary) (Graduate).

Exclusions: Students in the GradDipEd (Primary) should not enrol in this unit, but rather EDU291 Professional Internship Preliminary: Primary GradDipEd.

Enrolment in the relevant Professional Internship unit in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Internship: Primary BEd (EDU378)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical knowledge and develop a high level of professional competence. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Primary) OR Bachelor of Education (Primary) (Graduate) course.

Students will be required to have successfully completed all the required units. Completion of the relevant Professional Internship Preliminary unit (EDU377) in the same semester will be expected. Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Professional Internship: Primary BEd/ECE (EDU381)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical knowledge and develop a high level of professional competence in an early childhood setting. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Early Childhood and Primary) OR Bachelor of Education (Primary) and Early Childhood minor. Students will be required to have successfully completed all the required units.

Exclusions: BEd (Primary) students who are not enrolled in Early Childhood Education.

Completion of the relevant Professional Internship Preliminary unit (EDU379) in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

### **Professional Internship: Primary BEd/Inclusive Ed (EDU384)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical understandings and develops a high level of professional competence. It aims to nurture development of the reflective practitioner and establish a foundation for confronting issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Primary) and Inclusive Education minor.

Exclusions: BEd (Primary) students who are not enrolled in Inclusive Education minor.

Students will be required to have successfully completed all the required units. Completion of the relevant Professional Internship Preliminary unit (EDU383) in the same semester will be expected. Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.



**Professional Internship: Primary GradDipEd (EDU292)**

Credit Points: 4

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical understanding and develop a high level of professional competence. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Graduate Diploma in Education (Primary). Students will be required to have successfully completed all the required curriculum and school experience units.

Exclusions: Students in the BEd (Primary) should not enrol in this unit, but rather in the 6-point version EDU378 Professional Internship: Primary BEd.

Completion of the relevant Professional Internship Preliminary unit (EDU291) in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

**Professional Internship: Secondary BEd (EDU389)**

Credit Points: 6

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical knowledge and develop a high level of professional competence. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Six weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Bachelor of Education (Secondary) OR Bachelor of Education (Secondary) (Graduate) and successful completion of, or concurrent enrolment in, EDU387 Professional Internship Prelim: Secondary BEd.

Exclusions: Students in the GradDipEd (Secondary) should not enrol in this unit, but rather in the 4-point version EDU297 Professional Internship: Secondary GradDipEd.

Completion of the relevant Professional Internship Preliminary unit (EDU387) in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

**Professional Internship: Secondary GradDipEd (EDU297)**

Credit Points: 4

MURDOCH: ST2-placement, ST3-placement

This unit gives students the opportunity to consolidate their theoretical understanding and develop a high level of professional competence. It aims to nurture the development of the reflective practitioner and establish a foundation for confronting the issues associated with the professional responsibilities of being a teacher.

Seven weeks full-time block placement in a school.

Prerequisites: Enrolment in the final semester of a Graduate Diploma in Education (Secondary). Students will be required to have successfully completed all the required curriculum and school experience units.

Exclusions: Students in the BEd (Secondary) should not enrol in this unit, but rather in the 6-point unit, EDU389 Professional Internship: Secondary BEd.

Completion of the relevant Professional Internship Preliminary unit (EDU293) in the same semester will be expected.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website: <http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged.

**Professional Issues in Nursing Practice (NUR365)**

Credit Points: 3

MANDURAH: S2N-internal

This unit is the second of the two units that focus on professional matters underpinning contemporary nursing practice. The broader context of State, National and International issues that affect the nursing profession will be presented and students offered opportunity to explore the nursing responsibilities that are major factors in ensuring safety and quality in healthcare. Emphasis on the evolution from student nurse to registered nurse will be made.

Lectures: 12 x 1 hour; workshops: 12 x 2 hours delivered across 3 intensive one week periods in semester 2.

Prerequisites: Must have successfully completed the previous 5 semesters of core Nursing units.

Exclusions: Students who have successfully completed NUR309 Contemporary Nursing Management in Health Care, NUR336 Transitional and Leadership in the Nursing Profession and NUR398 Clinical Practice Transition Options may not enrol in this unit for credit. Students who have only successfully completed some of these units should contact the Academic Chair.

Students are required to enrol full-time in the final semester of third year in NUR366 Clinical Practice 5, NUR367 Clinical Practice 6 and NUR365 Professional Issues in Nursing Practice.

**Professional Nursing Practice 1 (NUR114)**

Credit Points: 3

MURDOCH: S1N-internal

MANDURAH: S1N-internal

This unit introduces the profession of nursing and contemporary nursing practice. Professional competency standards, decision making frameworks, and codes of ethics and conduct will be examined. Australia's health care system and the legal aspects of nursing will be explored. Evidence based practice and concepts of

caring, communicating, assessing, documenting and reporting will be applied in the context of professional nursing practice. Finally, reflective practice and professional portfolios will be introduced to facilitate the development of future competent and reflective practitioners.

Lecture: 1 hour per week; Tutorials: 2 hours per week.  
Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Prerequisites: Enrolment in Bachelor of Nursing

Exclusions: Students who have successfully completed NUR103 Contemporary Nursing Practice may not enrol in this unit for credit.

### Professional Nursing Practice 2 (NUR123)

Credit Points: 3

MURDOCH: S2N-internal  
MANDURAH: S2N-internal

This unit introduces students to the role of values, ethics and advocacy in professional nursing practice. Models of health, community and palliative care, along with Australian health care reform and its relevance to nursing are explored. Theories of teaching and learning will be introduced, and students will have opportunities to develop their health education skills using evidence based theoretical knowledge and practice. Finally students will be introduced to medications, how they work, relevant legislation, medication orders, safety, terminology and calculations.

Lectures: 1 hour per week; Tutorials: 2 hours per week  
Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Prerequisites: Enrolment in Bachelor of Nursing. Completion of NUR112 Health Across the Lifespan 1 or NUR100 Introduction to Nursing Practice; NUR114 Professional Practice 1 or NUR103 Contemporary Nursing Practice.

Exclusions: Students who have successfully completed NUR153 may not enrol in this unit for credit.

### Professional Nursing Practice in a Complex World (NUR361)

Credit Points: 6

Not available this year

This unit will explore in further depth, many of the professional issues underpinning contemporary nursing practice that have been introduced throughout the course. Key focus areas will include transition from student to professional registered nurse and reflective practitioner, along with legal, ethical, clinical governance and continuing competence considerations. Organisational culture, leadership, mentorship, effective communication, and health care technology will be examined, and students will have opportunities to further develop and consolidate their understanding of contemporary issues in professional nursing practice.

Lectures: 4 hours (6 x 2 day blocks over 1 week); Tutorial: 8 hours (6 x 2 day blocks over 1 week)

Prerequisites: BNR359 Clinical Practice 5: Research Perspectives

### Professional Nursing Practice: Complexities in Health and Illness in an Australian Context 1 (NUR387)

Credit Points: 6

Not available this year

This unit introduces students to professional nursing practice within the Australian health care context. The unit will engage students in simulated case based inquiry to explore the multifaceted nursing management of patients in community and acute care settings. Students will examine health, illness, and disability across the life span, incorporating critical thinking, problem solving, effective communication and evidence based practice. This unit is the first of two that reflect contemporary health trends in Australia focusing on National health priority areas.

Lectures: 2 hours per week; tutorials/laboratories: 4 hours per week.

Prerequisites: Co-requisites: BNR200 Evidence Based Nursing Care and NUR239 Clinical Practice 3.

This unit is subject to quota. Capped in first year due to limited availability of clinical placement positions, with review on an annual basis. Students must be enrolled in the Bachelor of Nursing.

### Professional Nursing Practice: Complexities in Health and Illness in an Australian Context 2 (NUR388)

Credit Points: 6

Not available this year

This unit continues to develop students' understanding of professional nursing practice within the Australian health care context. The unit will engage students in simulated case based inquiry to explore the multifaceted nursing management of patients in community and acute care settings. This second unit will extend students' ability to manage complex care using critical thinking, problem solving, effective communication and evidence based practice. A range of patient scenarios and settings will be examined to reflect contemporary Australian health trends.

Lectures: 2 hours per week; tutorials/laboratories: 4 hours per week.

Prerequisites: NUR387 Professional Nursing Practice: Complexities in Health and Illness in an Australian Context 1.

Co-requisites: NUR210 Indigenous Health and Cultural Diversity and NUR389 Clinical Practice 8: Transition to Registered Nurse.

This unit is subject to quota. Capped in first year due to limited availability of clinical placement positions, with review on an annual basis. Students must be enrolled in the Bachelor of Nursing.

### Professional Placement (ART325)

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal, W-internal

The aim of this unit is to give selected students on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements can be created and managed in many different guises, as the arrangements with each employer are negotiated and specific. During the time of their placement students are required to learn and demonstrate a range of skills and understandings relevant to their vocational specialisation.

Prerequisites: Enrolment in a Bachelor of Arts course and with the permission of Academic Chair

**Professional Placement in Digital Media (PHO330)**

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected students on the job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional placements will be a minimum of 120 hours of contact time. During this time students will be required to demonstrate a range of skills relevant and specific to their vocational specialisation.

Determined by the placement type and unit coordinator

Determined by the placement type and unit coordinator

Prerequisites: Permission of Academic Chair

Students should contact the unit coordinator regarding enrolment.

**Professional Placement in Media Production (SCR588)**

Credit Points: 6

Not available this year

The aim of this unit is to give students on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements will be full-time across several professional film shoots. During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

The professional film shoots are practical activities that run for 3 days each. It is expected that students will participate in around 4 of these in total. The timetable for these shoots is subject to change, but will be locked in during semester 1.

Consultations with Unit Coordinator.

Prerequisites: Completion of SCR538 Advanced Media Seminars and enrolment in the Graduate Diploma in Media Production.

**Professional Practice and Organisational Consulting (PSY563)**

Credit Points: 3

MURDOCH: S1-external

This unit will focus on professional, practical and methodological issues related to the practice of organisational psychology and organisational change, including: ethical and legal issues; cultural and ethnic issues; consulting skills; building and running a private practice; core organisational consulting skills such as working with data in organisations; program evaluation; record keeping, report writing and accountability.

Online discussions (fortnightly) with minimum contribution requirements.

Prerequisites: Enrolment in PgDipConsultPsych or GDipConsultPsych or MAppPsych or DPsych or MAppPsych/PhD or, for other Masters students, permission of the Unit Coordinator.

This unit was previously PSY575/S575 Professional Practice Issues.

**Professional Practice Management (CHI519)**

Credit Points: 2

MURDOCH: T1-internal

This unit introduces the aspects of practice management, exploring concepts including startup, associate, locum or partner in another practice. Business theory will be outlined in reference to practice location, business finance, securing business loans, hiring staff,

marketing, record keeping and policy and procedures. This is a basis for the student to develop life-long learning skills and business tools that they will need in their respective professions.

Lectures: 2 hours; workshops: 2 hours per week.

Prerequisites: Nil.

**Professional Practice Management (CHI520)***As for CHI519 except:*

Credit Points: 3

Not available this year

**Professional Psychology: Practicum 1 (Pre-Clinical) (PSY601)**

Credit Points: 3

MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics. Students will be supervised by clinical psychologists on the Psychology Board Australia list of accredited supervisors.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families and PSY662 Psychological Assessment: Theory and Method and PSY6551 Psychology: Advanced Research Methods. Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

**Professional Psychology: Practicum 1 (Professional) (PSY605)**

Credit Points: 3

MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics. Students will be supervised by a psychologist on the PBA list of accredited supervisors but not necessarily by a clinical psychologist.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families and PSY662 Psychological Assessment: Theory and Method and PSY6551 Psychology: Advanced Research Methods, or approval of the Unit Coordinator.

Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Psychology: Practicum 1 (Workplace Internship) (PSY607)**

Credit Points: 3

MURDOCH: S1-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics, however, workplace based practicums are possible through negotiation with the practicum coordinator.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families and PSY662 Psychological Assessment: Theory and Method and PSY6551 Psychology: Advanced Research Methods, or with permissions of the Unit Coordinator.

Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Psychology: Practicum 2 (Pre-Clinical) (PSY602)**

Credit Points: 3

MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics. Students will be supervised by clinical psychologists on the Psychology Board Australia list of accredited supervisors.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families; PSY662 Psychological Assessment: Theory and Method and PSY6551: Advanced Research Methods and PSY610: Professional Psychology: Research Project; and successful completion of PSY601 Professional Psychology Practicum 1 (Pre-clinical) or PSY607 Professional Psychology Practicum 1 (Workplace Internship) or approval of the Unit Coordinator.

Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Psychology: Practicum 2 (Professional) (PSY606)**

Credit Points: 3

MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics. Students will be supervised by a psychologist on the PBA list of accredited supervisors but not necessarily by a clinical psychologist.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families; PSY662 Psychological Assessment: Theory and Method and PSY6551: Advanced Research Methods and PSY610: Professional Psychology: Research Project; and successful completion of PSY605 Professional Psychology Practicum 1 (Professional) or PSY607 Professional Psychology Practicum 1 (Workplace Internship) or approval of the Unit Coordinator.

Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Psychology: Practicum 2 (Workplace Internship) (PSY608)**

Credit Points: 3

MURDOCH: S2-placement, SUM-placement, U-placement, Y-placement

Placements will give students experience in various forms of investigation and intervention presently practised in professional psychology. The principal aim is to apply knowledge, experience and research from all aspects of scientific psychology to health care, education and social problems. Placements are normally based in one or more of the clinics within the Murdoch School of Psychology and Exercise Science Clinics, however, workplace based practicums

are possible through negotiation with the practicum coordinator.

Practical placements: 5 months at 2 days per week or equivalent.

In preparation for the practicum unit, students must familiarise themselves with the Australian Psychological Society Professional and Ethical Practice Guidelines.

Prerequisites: Enrolment in MAppPsych (Professional); concurrent enrolment in, or successful completion of, PSY669 Psychotherapy in Practice and PSY664 Clinical Psychology: Working with Children and Families and PSY662 Psychological Assessment: Theory and Method and PSY6551: Advanced Research Methods and PSY610: Professional Psychology: Research Project; and successful completion of PSY601 Professional Psychology Practicum 1 (Pre-clinical) or PSY605 Professional Psychology Practicum 1 (Professional) or approval of the Unit Coordinator. Provisional Registration as a Psychologist with Psychology Board of Australia is also required.

Exclusions: Students who are experiencing mental health issues that may impair their ability to safely work with clients will not be approved for practicum enrolment. Students that may pose a danger to the public will not be approved for practicum enrolment.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Professional Psychology: Research Project (PSY610)**

Credit Points: 3

MURDOCH: Y-internal

A substantial research investigation into some aspect of psychology reported as a relevant review of literature and a 'journal article'.

Supervision: approximately 1 hour per week though this will vary throughout the year according to project need.

Research investigation and production of research report in the form of a journal article: approximately 6 hours per week for 37 weeks

Prerequisites: Enrolment in MAppPsych (Professional); completion of, or concurrent enrolment in, PSY6551 Psychology: Advanced Research Methods or with prior approval of the Unit Coordinator.

### **Professional Writing and Editing (EGL232)**

Credit Points: 3

MURDOCH: S2-internal

In this unit students reflect on a range of professional writing approaches, exploring written language as a 'living grammar', and refining their capacity as critical and focused writers and readers of their own and others' work. They will have the opportunity to write in a range of genres and styles. Finally, they will learn systematic approaches to the practices of editing and proofing of fiction and non-fiction texts, and develop techniques for refining academic, creative, workplace and other writing.

Lectures: 1 hour; tutorials: 1.5 hours.

Prerequisites: Nil.

### **Project in Creative Writing (EGL220)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Students who have completed EGL122 can develop their skills through a more extended creative prose writing project. The EGL220 readings further extend students' awareness of the range of traditional and experimental narratives and writers' techniques. The unit broadens students' understanding of processes involved in writing creatively, approaches to research for creative writing, and

further consideration of form and structure. Workshops will assist students in the transformation, development and crafting of their ideas to engage readers effectively.

Lecture: One introductory lecture up to an hour long in week 1 only; workshops: up to 2.5 hours per week.

Prerequisites: EGL122 Writing and Creativity

### **Project Management (MBS685)**

Credit Points: 3

MURDOCH: S1-internal, W-internal, W-external

DUBAI-ISC: TJD-internal

KAPLAN-SGP: TMA-internal

This unit provides a generic approach to project management and is applicable to any project. You will gain a solid understanding of the various elements of project management including: planning, organising, controlling, scope management, meeting project objectives and attaining project success. You will be able to analyse the performance of a project during the execution phase; describe the major functions of project management and how they are applied.

Workshops: 2 hours per teaching week for South Street Campus

The approach to learning in this unit requires students to prepare for each session in advance, to participate in experiential learning exercises, discussions and other activities during sessions. External students will be required to participate online. Most sessions will include a recorded lecture component which will be available for downloading.

Prerequisites: Enrolment in a post-graduate-level course.

Exclusions: Students who have successfully completed MBS641 Project Management or MBS6411 Project Management may not enrol in this unit for credit.

### **Projects in Veterinary and Life Sciences (VLS300)**

Credit Points: 3

MURDOCH: U-internal

Most laboratories undertaken as an undergraduate student are limited to a single 3 or 4 hour session, but scientific investigations in the workplace are often conducted over days or months. Additionally, scientists may have to search literature, develop methods, and incorporate data from bioassays/industrial processes into their work. This project unit allows students to undertake a semester long research study under the guidance of a faculty member, providing valuable experience in scientific practice.

Field placements or industry tours may be required in some projects. Details of these will be advised at the beginning of the relevant study period.

Prerequisites: Completion of a minimum of 24 credit points and permission of the unit coordinator is required for enrolment in this unit.

### **Property Law A (LLB253)**

Credit Points: 3

MURDOCH: S1-internal

This unit aims to acquaint students with the principles of property law. Topics: property as a concept of law; traditional classification of property; the concept of possession; fixtures; the doctrine of tenure and of estates; creation and transfer of proprietary interests; priorities; general law conveyance and an introduction to the Torrens system. The unit will consider aspects of the following statutes and their interpretation: Property Law Act 1969 (WA); Limitation Act 2005 (WA); and Transfer of Land Act 1893 (WA).

Lectures: 2 hours per week; tutorials/workshops: up to 5 hours per semester.

Prerequisites: Successful completion of all Part 1 units in the LLB, and successful completion/concurrent enrolment in LAW260/LLB260 Contract Law

Exclusions: Students who have successfully completed LAW253 Property may not enrol in this unit for credit.

### Property Law B (LLB254)

Credit Points: 3

MURDOCH: S2-internal

This unit aims to acquaint students with the principles and important institutions of real property law. Topics include: leases; mortgages, easements; profits and restrictive covenants and specific statutory property regimes including commercial tenancies and resident tenancies. Key legislation covered in the unit include: Transfer of Land Act 1895 (WA); Property Law Act 1969 (WA) and Commercial Tenancy (Retail Shops) Agreements Act 1985 (WA).

Lectures: 2 hours per week; tutorials/workshops: up to 5 hours per semester.

Prerequisites: Successful completion of LLB253 Property Law A; LLB260/LAW260 Contract.

Exclusions: Students who have successfully completed LAW253 Property may not enrol in this unit for credit.

### Protected Area Management and Planning (ENV246)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops an understanding of the planning and management of protected areas, including issues of definition, representativeness, governance and effectiveness. The relationship between protected areas and their surrounding communities and landscapes/seascapes will be explored. We also examine the issues relating to the conservation of biodiversity whilst simultaneously ensuring the management of visitors, indigenous and cultural heritage. Although emphasis is placed on Australian and Western Australian case studies in understanding management plans we also bring an international focus to the unit.

Lectures: 2 hours per week; workshops/laboratories/semester: 4 x 3 hours.

Fieldwork: one half-day field work component.

Prerequisites: Nil.

### Psychological Assessment: Theory and Method (PSY662)

Credit Points: 3

MURDOCH: Y-internal

Core unit for all MAppPsych, combined MAppPsych/PhD and DPsych candidates. This Unit covers the major issues and methods that apply broadly to psychological assessment. The aim is to increase understanding of a scientist-practitioner approach to psychological practice and to develop competency in psychological assessment.

Seminars: 3 hours per fortnight; practical/workshops: to be determined.

It is expected that students will complete core readings out of class time and undertake test practice out of class time. Students are encouraged to work in groups of 3-4 for test practice.

Prerequisites: MAppPsych (Professional), MAppPsych, DPsych or MAppPsych/PhD; Enrolment in Pg or GradDipConsultPsych where candidate holds a four-year Psychology qualification or equivalent.

Exclusions: Students who have completed PSY562 Psychological Assessment: Theory and Method may not enrol in this unit for credit.

### Psychology and Law (CRM389)

As for LLB389 except:

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit explores the similarities and differences between the disciplines of psychology and law. After comparing the premises of the two disciplines, the unit goes on to explore ways in which law can benefit from psychology and an understanding of psychological processes. Topics are covered from both a theoretical and applied perspective. The unit covers topics including interviewing, interrogations, false confessions, juries, and expert and eyewitness testimony. Students are encouraged to become critical consumers of law and its underlying premises.

Lectures: 2 hours per week.

Prerequisites: Successful completion of CRM100 Introduction to Criminology.

Exclusions: Students who have completed CRM309 / LAW309 / LLB389 Psychology and Law may not enrol in this unit for credit.

### Psychology and Law (LLB389)

Credit Points: 3

MURDOCH: S2-internal

The unit explores the similarities and differences between the disciplines of psychology and law. After comparing the premise of the two disciplines, the unit goes on to explore ways in which law can benefit from psychology and an understanding of psychological processes. Topics are covered from both a theoretical and applied perspective. A broad range of topics will be covered, including policing, investigation, juries, mental illness and family law issues.

Lectures: 2 hours per week.

Prerequisites: Successful completion of all Part 1 units in the LLB

Exclusions: Students who have successfully completed LAW309/CRM309/CRM389 Psychology and Law may not enrol in this unit for credit.

### Psychology Project (PSY541)

Credit Points: 12

MURDOCH: H-internal, Y-internal

Students work in small groups with an academic supervisor to develop, conduct, and write up a research project on a topic in psychology. You will be emailed explaining how to select projects approximately one week before teaching period commences. More information is given in the first seminar in PSY599 and allocation to groups occurs by end of week 1. This unit is not timetabled because student groups will have meeting times arranged with their supervisor (specified during project selection procedure).

Approximately weekly meetings with the supervisor and other group members. Depending on the nature of the research project, additional group meetings without the supervisor and/or training sessions may be expected.

Prerequisites: Enrolment in Graduate Diploma in Psychology (GradDipPsych)

Exclusions: Students who have successfully completed PSY441

Psychology: Fourth Year Project may not complete this unit for credit.

### Psychology: Abnormal Behaviour (PSY388)

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit will introduce how abnormal behaviour is defined, and will explore the symptoms, causes and treatment of common and less common psychological disorders. These disorders and their treatment will be conceptualised through various theoretical frameworks, including cognitive, behavioural, systemic and neuropsychological approaches. Current issues relevant to both clinical practice and research will also be explored.

Lectures: 1.5 hours per week

Tutorials: 5 x 1.5 hours per teaching period

Prerequisites: PSY141 Introduction to Psychological Science or PSY171 Introduction to Applications of Psychology or PSY173 Introduction to Psychological Research Methods or PSY101 Introduction to Cultural Psychology or PSY172 Introduction to Psychological Health and Wellbeing

Exclusions: Students who have successfully completed PSY213 Psychology: Abnormal Behaviour may not enrol in this unit for credit.

### Psychology: Advanced Research Methods (PSY655)

Credit Points: 2

MURDOCH: Y-internal

This unit aims to train students in the latest methodological strategies to conduct applied research. It will facilitate students' ability to think about research questions, understand applied designs, manage relevant ethical issues, and communicate this through proposals relevant to ethics and scientific review committees. At its completion, students would be able to design and conduct research in applied settings; critically evaluate research publications and reports; understand the ethical issues in research; and appreciate how research informs the practice of psychology.

Seminars: 7 x 3 hours run in Orientation Week.

School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series throughout the year - these may be viewed by video for external students.

Prerequisites: Enrolment in Master of Applied Psychology in Clinical Psychology, or Master of Applied Psychology in Organisational Psychology.

Students will complete (i) 21 hours in a single intensive research training week followed by (ii) attendance at School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series (minimum of 6 hours).

A result of Ungraded Pass or Fail is awarded for this unit.

### Psychology: Advanced Research Methods (PSY655<sup>1</sup>)

*As for PSY655 except:*

Credit Points: 3

MURDOCH: Y-internal

Seminars: 7 x 3 hours run in Orientation Week

School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series throughout the year - these may be viewed by video for external students - a minimum of 8 seminars.

Prerequisites: Enrolment in Master of Applied Psychology (Professional).

Students will complete (i) 21 hours in a single intensive research training week followed by (ii) attendance at School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series (minimum of 8 presentations).

A result of Ungraded Pass or Fail is awarded for this unit.

### Psychology: Advanced Research Methods (PSY755)

*As for PSY655 except:*

MURDOCH: Y-internal

Seminars: 7 x 3 hours run in Orientation Week and mid-year. School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series throughout the year.

Prerequisites: Doctor of Psychology in Clinical Psychology, or Doctor of Psychology in Organisational Psychology.

Students will complete (i) 21 hours of intensive research training followed by (ii) attendance at School of Psychology and Exercise Science Research Seminar Series and PhD Confirmation of Candidature Presentation Series (minimum of 3 hours).

A result of Ungraded Pass or Fail is awarded for this unit.

### Psychology: Biological Bases of Behaviour (PSY251)

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces students to the biological foundations of human behaviour. Topics include the organisation and function of the nervous system, the role of drugs and neurotransmitters in this system, the psychophysiology of motivational states such as sleep, temperature and eating, and the biology of learning, addiction, and mood disorders. Biological influences on emotion and psychopathology, and the impact of negative emotions on health, will also be addressed.

Lectures: 1 x 2 hours per week (x10 weeks); Tutorials: 10 x 1 hour per teaching period; optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: PSY173 Introduction to Psychological Research Methods

Exclusions: Students who have successfully completed PSY351 Psychology: Biological Bases of Behaviour may not enrol in this unit for credit.

### Psychology: Cognitive Processes (PSY294)

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

Cognitive psychology explores the fascinating complexity of mental processes in all their forms and the field has derived enormous impetus in recent years from insights gained in disciplines as diverse as neuropsychology, neuroanatomy, artificial intelligence, philosophy of mind, and psycholinguistics. The main topics in this unit will include: attention, memory, speech and language, the organisation of knowledge, mental concepts and categories, imagery, and the role of emotion in cognition.

Lectures: 1 hour per week; laboratories: 6 x 2 hours per teaching period.

Prerequisites: PSY173 Introduction to Psychological Research

## Methods

Exclusions: Students who have successfully completed PSY353 Psychology: Cognitive Processes may not enrol in this unit for credit.

### Psychology: Developmental Cognitive Neuroscience (PSY396)

Credit Points: 3

MURDOCH: S2-internal

This capstone unit focuses on the techniques developed in cognitive neuroscience for studying the brain, its development and its influence on psychological functioning. These techniques include neuroimaging, the study of patients with brain lesions, and how the developing brain influences typical and atypical behavioural development. Topics will include localisation of function, sensory and perceptual functioning, neurotypical and atypical development, and the ageing brain.

Lectures: 1.5 hours per week; workshops: 4 x 2 hours per teaching period.

Prerequisites: Students must have completed PSY251 Psychology: Biological Bases of Behaviour and PSY294 Psychology: Cognitive Processes.

### Psychology: Drugs and Dependence (PSY389)

Credit Points: 3

MURDOCH: S1-internal

This unit examines the major classes of psychotropic drugs including those with abuse potential. The physical and physiological factors involved in the action of drugs, their administration, metabolism, excretion and in their use, will be described; pharmacotherapy for drug dependence will be critically discussed. Students will review the history of substance abuse and addictions, examine current patterns of addictions and substance abuse behaviour in a psychological context and discuss the use of psychological interventions.

Lectures: 1.5 hours per week  
Tutorials: 6 x 2 hours per teaching period

Prerequisites: PSY141 Introduction to Psychological Science

Exclusions: Students who have successfully completed PSY215 Addictions and Substance Abuse or PSY215 Drugs and Dependence may not enrol in this unit for credit.

### Psychology: Family Relations and Social Development (PSY392)

Credit Points: 3

MURDOCH: S2-internal  
KAPLAN-SGP: TSA-internal

Relationships play a key role in development. From a family life cycle perspective, this unit examines how individuals manage developmental tasks within dynamic and evolving social contexts.

Lectures: 1.5 hours per week. Tutorials: 5 x 1.5 hours per teaching period

Students are required to undertake group work; this involves self-directed learning and team work with peers.

Prerequisites: PSY247 Psychology: Human Development OR PSY286 Psychology: Human Development.

### Psychology: Fourth Year Project (PSY441)

Credit Points: 8

MURDOCH: H-internal, Y-internal

Students work in small groups with an academic supervisor to develop, conduct, and write up a research project on a topic in psychology. You will be emailed explaining how to select projects approximately one week before the teaching period commences. More information will be given in the first seminar in PSY412. Allocation to groups occurs by end of week 1. This unit is not timetabled because each student group will have meeting times arranged with their supervisor (specified during project selection procedure).

Approximately weekly meetings will be held with the supervisor and other group members. Depending on the nature of the research project, additional group meetings without the supervisor and/or training sessions may be expected.

Prerequisites: BSC302: Advanced Quantitative Research Methods \*or\* PSY311 Psychology: Advanced Quantitative Research Methods \*or\* PSY315 Psychology: Advanced Qualitative Research Methods

### Psychology: Fourth Year Seminar (PSY412)

Credit Points: 4

MURDOCH: S1-internal

This unit will prepare students for fourth-year study and especially for the research project, integrate prior learning with themes central to the science and practice of psychology, link the content, approaches, and assessments to real-life, job-relevant contexts, and prepare students who will be seeking work. Content includes critical methods for psychology and advanced topics.

Classes: 2 hours per week.

Prerequisites: BSC302 Advanced Quantitative Research Methods or PSY311 Psychology: Advanced Quantitative Research Methods or PSY315 Psychology: Advanced Qualitative Research Methods or enrolment in Postgraduate Diploma in Psychology.

Exclusions: Students who have successfully completed PSY599 Graduate Seminar in Psychology may not enrol in this unit for credit.

### Psychology: Honours Seminar (PSY501)

Credit Points: 3

MURDOCH: S1-internal

This unit will prepare students for fourth-year study and especially for the research project, integrate prior learning with themes central to the science and practice of psychology, link the content, approaches, and assessments to real-life, job-relevant contexts, and prepare students who will be seeking work. Content includes critical methods for psychology and advanced topics.

Classes: 2 hours per week.

Prerequisites: BSC302 Advanced Quantitative Research Methods or PSY311 Psychology: Advanced Quantitative Research Methods or PSY315 Psychology: Advanced Qualitative Research Methods; and enrolment in Psychology Honours (BPsych(Hons)) or Psychology Honours (BA(Hons)) or Psychology Honours (BSc(Hons))

Exclusions: Students who have successfully completed PSY411 Psychology: Honours Seminar or PSY412 Psychology: Fourth Year Seminar or PSY599 Graduate Seminar in Psychology may not enrol in this unit for credit.



**Psychology: Human Development (PSY286)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit examines human life span development from conception through to death. The developmental theories are presented and the biosocial, cognitive and psychosocial influences on the individual are studied and integrated to understand the developing person. The unit aims to; 1) provide overview of the nature and scope of developmental psychology, including theories, research methodologies and applications; 2) promote understanding of the developing person at different periods in the lifespan; 3) develop analytical skills regarding the application of human development research.

Lectures: 1.5 hours per week; Tutorials: 5 x 1.5 hours per teaching period.

Group work involving self-directed project management and team work with peers.

Prerequisites: PSY141 Introduction to Psychological Science OR PSY171 Introduction to Applications of Psychology OR PSY173 Introduction to Psychological Research Methods OR PSY101 Introduction to Cultural and Community Psychology OR PSY172 Introduction to Psychological Health and Wellbeing

Exclusions: Students who have successfully completed PSY247 Psychology: Human Development may not enrol in this unit for credit.

**Psychology: Individual Differences and Performance (PSY391)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TSA-internal

This unit explores the major psychological determinants of human performance with a focus on personality and motivation. In the unit, we will consider the issues associated with conceptualising and measuring performance and lack of performance. The complex relations between individual differences in personality, situational factors and relationships, and motivation will be discussed. The application of theory to practice will be investigated in various contexts where people seek to optimise human performance.

Lectures: 1.5 hours per week; tutorials: 5 x 1.5 hours

Prerequisites: PSY141 Introduction to Psychological Science OR PSY101 Introduction to Cultural and Community Psychology OR PSY173 Introduction to Psychological Research Methods OR PSY172 Introduction to Psychological Health and Wellbeing

**Psychology: Measurement, Design and Analysis (BSC201)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit will provide students with knowledge of fundamental concepts involved in psychological methods, research design, data analysis, and in the interpretation of published research. Students will develop skills in assessing which designs and methods are appropriate to test different hypotheses, understanding which types of analyses are most appropriate to analyse different types of data, conducting analyses using statistical software and communicating their results clearly.

Lectures: 11 x 1.5 hours; Computer laboratories: 12 x 1 hour

Prerequisites: PSY173 Introduction to Psychological Research Methods

Exclusions: Students who have successfully completed PSY212 Psychology: Measurement, Design and Analysis or PSY212 Psychological Methods II may not enrol in this unit for credit.

This unit replaces BSC200 for students in the BSc (Psychology), and (Cognitive Neuroscience and Health Psychology) majors, and BAR200 for students in the BA (Psychology), and (Social and Developmental Psychology) majors.

**Psychology: Practical Skills (PSY544)**

Credit Points: 3

MURDOCH: S2-internal

This unit facilitates the learning of skills related to psychological practice. The unit is designed to enable students to develop skills that will assist them applying their undergraduate knowledge to stakeholder needs.

Seminar: 3 hour seminars for seven weeks of the semester.

Introductory seminar session delivered via LMS, prior to the on-campus seminars conducted during the semester.

Prerequisites: Enrolment in Graduate Diploma in Psychology (GradDipPsych)

Exclusions: Students who have successfully completed PSY444 BPsych Practical Placements may not enrol in this unit for credit.

**Psychology: Principles and Processes of Interventions (PSY436)**

Credit Points: 4

MURDOCH: S2-internal

This unit covers the application of psychology to facilitating individual, family and organisational change. The unit will draw on the scientific approach that underpins psychology and show how this can be applied in the psychotherapeutic context. The content will cover the importance of the therapeutic alliance, interventions, the role of formulation, and the different measures of outcomes that can be employed.

Lectures: 2 hours per week. Workshops: 9 x 2 hours per teaching period.

Prerequisites: PSY388 Psychology: Abnormal Behaviour or PSY213 Psychology: Abnormal Behaviour and either BSC302 Advanced Quantitative Research Methods or PSY311 Psychology: Advanced Quantitative Research Methods or PSY315 Psychology: Advanced Qualitative Research Methods; OR enrolment in Graduate Diploma in Psychology (GradDipPsych) OR BA Psych (Hons) OR BPsych (Hons) or Psychology with Honours (BA (Hons)) or Psychology with Honours (BSc (Hons)).

Exclusions: Students who have completed PSY436 Advanced Topic E or PSY536 Psychology: Principles and Processes of Psychological Intervention may not enrol in this unit for credit.

**Psychology: Principles and Processes of Psychological Intervention (PSY536)**

Credit Points: 3

MURDOCH: S2-internal

This unit covers the application of psychology to facilitating individual, family and organisational change. The unit will draw on the scientific approach that underpins psychology and show how this can be applied in the psychotherapeutic context. The content will cover the importance of the therapeutic alliance, interventions, the role of formulation, and the different measures of outcomes that can be employed.

Lectures: 1.5 hours per week; Workshops: 9 x 2 hours across the semester.

7

Prerequisites: Enrolment in Graduate Diploma in Psychology (GradDipPsych) G1058, or Psychology with Honours (BA(Hons)) or Psychology with Honours (BSc(Hons))

Exclusions: Students who have completed PSY436 Psychology: Principles and Processes of Interventions may not enrol in this unit for credit.

### **Psychology: Principles of Psychological Assessment (PSY431)**

Credit Points: 4

MURDOCH: S1-internal

This unit examines the major theoretical issues, practical applications and ethical considerations associated with individual and group psychological assessment and measurement techniques.

Lectures: 3 hours.

Prerequisites: BSC302 Advanced Quantitative Research Methods or PSY311 Advanced Quantitative Research Methods or PSY315 Advanced Qualitative Research methods or enrolment in Postgraduate Diploma in Psychology or BA Psychology (Hons) or BPsych (Hons) or Psychology with Honours (BA (Hons)) or Psychology with Honours (BSc (Hons)).

Exclusions: Students who have successfully completed PSY431 Psychology: Advanced Topic A may not enrol in this unit for credit.

### **Psychology: Psychological Research Placement (PSY380)**

Credit Points: 3

MURDOCH: S1-placement, S2-placement, Y-placement

The research placement provides experience in aspects of psychological research with the principal aim of developing research skills in preparation for the honours project. Students will work in a research setting under the supervision of academic staff on research-related activities, which may include literature searches, data collection and entry, and statistical analyses.

Research placement: 15 weeks at 8 hours per week or equivalent.

Prerequisites: Permission of Unit Coordinator; and completion of BSC201 Psychology Measurement, Design and Analysis OR PSY212 Psychology: Measurement, Design and Analysis.

### **Psychology: Safety, Errors and Accidents (PSY357)**

Credit Points: 4

KAPLAN-SGP: TMA-internal

This unit examines contemporary issues in industrial and organisational settings. The topics will provide students with an overview into psychological issues in the I/O sector, such as: job design and working conditions; error detection and management; accident and disaster investigation; organisation culture and safety; occupational health and safety responsibilities; and product and process responsibilities and liabilities. Theories will be discussed and critically evaluated along with an examination of case studies from the transportation, chemical and nuclear industries.

Lectures/tutorials/online activities/seminars: 3 hours per week.

Prerequisites: Nil.

### **Psychology: Self and Society (PSY287)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TMA-internal, TSA-internal

This unit explores the concept of 'self'; the relationship between our identities in the social world and our experiences of self. It considers how gender, ethnicity, age, and sexuality shape the ways in which we think about ourselves and others, as well as our treatment of those who do not share our identities. It also considers the political and ideological implications of particular ways of thinking about 'self' and how particular identities and states of being are promoted or marginalised.

Lectures: 11 x 1.5 hours; Tutorials: 5 x 1.5 hours

Prerequisites: Students must have completed PSY285 Psychology: Social Bases of Behaviour OR PSY248 Psychology: Social Bases of Behaviour

Exclusions: Students who have successfully completed PSY218 Psychology: Self and Society OR PSY218 Self and Identity may not enrol in this unit for credit.

### **Psychology: Sensation and Perception (PSY297)**

Credit Points: 3

MURDOCH: S2-internal

This unit explores how humans experience the world around them through the senses of vision, audition, balance, smell, and taste, namely how biological (sensory) inputs are used in the psychological process of perception. Students will examine the physiological and psychological foundations of sensation and perception.

Lectures: 12 x 1.5 hour lectures (one each teaching week)  
Tutorials: 10 x 1 hour tutorials (starting week 2) Optional Peer Assisted Study Sessions (PASS) 1 hour per week.

Prerequisites: PSY141 Introduction to Psychological Science.

Exclusions: Students who have successfully completed PSY358 Psychology: Sensation and Perception may not enrol in this unit for credit.

### **Psychology: Social Bases of Behaviour (PSY285)**

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit explores how we make sense of ourselves and others, and how the 'actual, imagined or implied' presence of others influences our thoughts and behaviours. We will examine what social psychology can tell us about fundamental questions like 'Who Am I?' as well as 'real-world' topics like 'Why are people cruel (and when will they be kind)?'. In doing so, students will learn about major theories, methods and classic studies of social psychology.

Lectures: 12 x 2 hours; Tutorials: 5 x 2 hours

Prerequisites: PSY141 Introduction to Psychological Science OR PSY171 Introduction to Applications of Psychology OR PSY173 Introduction to Psychological Research Methods OR PSY101 Introduction to Cultural Psychology OR PSY172 Psychological Health and Wellbeing

Exclusions: Students who have successfully completed PSY248 Psychology: Social Bases of Behaviour may not enrol in this unit for credit.

**Psychology: Special Topics in Psychology (PSY250)**

Credit Points: 3

Not available this year

This unit gives students exposure to cutting-edge research topics across a range of different areas of psychology. Students will develop the ability to critically engage with contemporary academic scholarship within the discipline through attending a series of seminars delivered by different researchers across a range of topics. Critical reflection upon these seminars will be encouraged through tutorial and assessment exercises.

Seminars/tutorials: 1.5 hours per week (or equivalent).

Prerequisites: Enrolment in H1195 BPsych (Honours), or B1103 Psychology (BA), or B1104 Psychology (BPsych), or B1317 (BSc) Cognitive Neuroscience and Health Psychology, or B1316 (BA) Social and Developmental Psychology, or permission of Unit Coordinator.

This unit provides foundation skills and knowledge for students wishing to enrol in PSY380 Psychology: Psychological Research Placement.

**Psychology: The Developing Mind (PSY393)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TSA-internal

Between birth and adulthood, dramatic changes take place in an individual's understanding of the world and in many of his/her cognitive skills and abilities. This unit will examine these changes and theories offered to explain them. Developmental insights into the functioning mind will be explored, with specific application to formal and informal learning. The unit will address patterns of development common to most humans, the extent and nature of individual differences within age groups and possible reasons for these.

Lectures: 2 hours per week; 1 hour tutorial occurring in 6 weeks

Prerequisites: PSY247 Psychology: Human Development OR PSY286 Psychology: Human Development

Exclusions: Students who have successfully completed PSY221 Cognitive Development and Individual Differences or PSY249 Psychology: The developing mind may not enrol in this unit for credit.

**Psychology: Work and Organisations (PSY217)**

Credit Points: 4

KAPLAN-SGP: TJA-internal, TSA-internal

This unit provides an introduction to the study of human behaviour in the workplace. It will be of value to those whose career draws them into organisational settings, as well as those intending to specialise in organisational psychology. The unit explores a range of issues relevant to the psychological understanding of organisations and the individuals who participate in them.

Workshops and assessments aim to give students a practical understanding of topics while developing key skills for the future.

Lectures/tutorials/online activities/seminars: 3 hours per week.

Prerequisites: Nil.

**Psychotherapy in Practice (PSY669)**

Credit Points: 3

MURDOCH: Y-internal

This unit will focus on professional, practical and methodological issues related to the practice of psychology, including: training in relevant practice skills; ethical and legal issues; psychopharmacology, managing a psychology practice, cultural and ethnic issues; oral and written case formulation; presentation skills; consultation; systematic decision making and clinical topics as negotiated.

Seminars/workshops: 3 hours per week or equivalent. Due to the nature of this unit, students should seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period. At times, seminars or workshops are run in non-standard teaching times.

Prerequisites: Enrolment in MAppPsych (Professional), MAppPsych (Clinical) or DPsych (Clinical) or MAppPsych (Clinical)/PhD. Co-requisite: PSY537 Clinical Psychology: Internal Practicum (Child, Youth and Family) and/or PSY538 Clinical Psychology: Internal Practicum (Adult).

Exclusions: Students who have completed PSY569 Psychotherapy in Practice may not enrol in this unit for credit.

This unit was previously PSY575/S575 Professional Practice Issues. This unit is designed to prepare and support the completion of the internal clinical placement unit. Students must be enrolled in this unit's co-requisite (internal placement).

**Public Health (CHI458)**

Credit Points: 3

Not available this year

This unit is concerned with the health of the community as a whole. It will review the main determinants of mortality and morbidity internationally but with emphasis on Australia. Public Health also reviews community groups and special populations. Scenarios and problem solving derived from larger populations and a research project will form an important component of this unit and students will work in small groups to achieve this. Expert interdisciplinary practitioners with experience in the area of speciality will present.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1-4.

**Public Health (CHI509)**

Credit Points: 2

MURDOCH: T2-internal

This unit is concerned with the health of the community as a whole. It will review the main determinants of mortality and morbidity internationally but with emphasis on Australia. Public Health also reviews community groups and special populations. Scenarios and problem solving derived from larger populations and a research project will form an important component of this unit and students will work in small groups to achieve this. Expert interdisciplinary practitioners with experience in the area of speciality will present.

Lectures: 2 hours per week; project works/seminars: 2 hours per week.

Prerequisites: Enrolment in BSc Exercise Physiology OR Enrolment in BSc/BClinChiro and the successful completion of Years 1 to 4, OR by special application to the Unit Coordinator.

**Public Health and Epidemiology (VET656)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides students with a firm foundation in theoretical and practical questions implicated in the study of public health. Population health approaches to public health challenges, in local and global context, will be examined. The unit introduces students to the skills of applying epidemiological principles to public health and clinical practice. This includes undertaking scientific assessment of the health literature, with a strong emphasis on critical appraisal of health data analysis.

Workshop: 1 x 2 hours per week.

- Interactive workshops,
- Independent research,
- Oral presentation.

Prerequisites: Enrolment in Master of Health Policy and Leadership or Master of Health Administration, Policy and Leadership.

**Public International Law (LLB365)**

Credit Points: 3

MURDOCH: S1-internal

Examines the nature, origin, sources and subjects of international law, and the structure, principal rules and values of the international legal order. Topics: solution of disputes between states, law of the seas, international economic and trade mechanisms, self-determination and the protection of human rights. Focus: learning how to determine what the law is. Other issues: the role of law in resolving disputes, the role of international organisations in maintaining world order, the role of public international law in Australian courts.

Lectures: 2-hours per week

Prerequisites: Successful completion of all Part 1 units in the LLB, LLB358/LAW258 Australian Administrative Law, and LLB259/LAW259 Constitutional Law.

Exclusions: Students who have successfully completed LAW365 Public International Law may not enrol in this unit for credit.

**Public Policy Analysis (POL246)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

Why do some problems come to the attention of governments while others do not? Who is involved in the policy-making process? Pressure groups, media, think tanks; what are their goals? How are policies evaluated? Theoretical explanations are combined with practical examples from Australia and overseas to provide students with a critical understanding of how policy is made. The unit also equips students with the main conceptual tools for analysing the impact of a policy or policy recommendation.

Lectures/workshops: 2.5 hours per week

Prerequisites: Nil.

Exclusions: Students who have completed POL330 Public Policy Analysis may not enrol in this unit for credit.

**Public Policy and International Affairs Foundations (SWM649)**

Credit Points: 6

MURDOCH: S1-internal

This unit is the foundation of the Capstone experience and a core unit for all students in the Sir Walter Murdoch School. It focuses on big policy challenges facing the world at both the national and international level, and examines several specific theoretical and practical approaches to resolving them. Students attain an integrated understanding of public policy and international affairs and the key issues facing political development through applying these approaches to specific case studies.

The approach to learning in this unit is a combination of structured timetable learning via weekly lectures and tutorials with semi-structured group exercises, including student presentations. Lectures: 1.5 hours per week; Tutorials: 1.5 hours per week; Seminar; 1x 3 hour seminar in week 6. 33 hours total contact time.

Prerequisites: Enrolment in Master of International Affairs, Master of International Affairs and Security, Master of Development Studies, or Master of Public Policy and Management.

Exclusions: Students who have completed SWM644 Public Policy and International Affairs Foundation may not enrol in this unit for credit.

**Public Policy Internship (POL340)**

Credit Points: 6

MURDOCH: S2-internal, S2-external

Provides the opportunity to investigate a real world public policy issue under the joint supervision of a WA Parliamentarian, public sector agency or NGO, and an academic supervisor. The research project which requires both substantial research and an extended piece of writing (minimum 5000 words) is supported by a series of seminars which range in focus from considerations of parliamentary government, policy making and the ethics of research. All interns will spend time in the workplace associated with their internship/placement.

Seminars: 2.5 hours per week; internship contact hours to be negotiated.

Interns undertaking a Parliamentary Internship will visit the Parliament of WA. Interns placed with public sector agencies may be offered professional development opportunities appropriate to that agency. A priority of the internship is peer support - all interns work in partnership with an internship 'buddy'.

Prerequisites: High standard of academic performance.

Exclusions: Students who have completed POL322 Parliamentary and Public Sector Internship may not enrol in this unit for credit.

**Public Policy Perspectives (SWM613)**

Credit Points: 6

MURDOCH: S1-internal

Public policy formation is a dynamic process that is constantly evolving. This unit examines policy making processes through a range of policy models, policy design techniques and public policy theory. Case studies and other concrete scenarios are used to enable students to test these theories and perspectives through real world examples. The unit equips students with the tools to comprehend contemporary policy formation and implementation, together with the theoretical and conceptual frameworks that provide the basis for policy analysis.

Seminars and workshops are delivered in intensive teaching mode (32 hours contact time), which may include evenings and weekends. Students will then complete research assignments

independently, in consultation with teaching staff.

A range of policy case studies that target key public policy issues.

Prerequisites: Enrolment in Master of Public Policy and Management, Master of Development Studies, Master of International Affairs or Master of International Affairs and Security, Master of Health Administration, Policy and Leadership or Master of Health Policy and Leadership.

Exclusions: Students who have successfully completed POL530 Public Policy Analysis or SSH509/SWM509 Public Policy: Theory and Practice may not enrol in this unit for credit.

### Public Relations in Society (MCC385)

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit explores public relations, and its role in society, through the lenses of globalisation and culture. It draws on recent scholarship and a socio-cultural approach to present alternative understandings to the functional and normative understandings of public relations which historically have dominated the field. Rather than viewing public relations as an organisational or management function, this unit explores public relations as a cultural activity influenced by the social, political and cultural contexts actively involved in the construction of meaning.

Lectures: 1 hour; tutorials: 1.5 hours

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC246 (2012) Professional Communication may not enrol in this MCC385 Public Relations in Society for credit.

### Public Relations in Society (PRO285)

Credit Points: 3

MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

This unit explores the theory and practice of public relations through the lenses of globalisation and culture. This socio-cultural approach represents a shift away from the functionalist and normative understandings of public relations, which historically, and until recently, have dominated the field. Rather than viewing public relations as an organisational or management function, this unit explores public relations as a cultural activity influenced by social, political and cultural contexts, and actively involved in the construction of meaning.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

N/A

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC385 Public Relations in Society cannot enrol for credit in this unit.

### Public Relations Internship (PRO325)

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

This unit offers final year students the opportunity to complete a professional placement and to integrate their workplace and academic learning through reflective and research-based assessments. Industry placements are full-time across three weeks (or part-time equivalent). Acceptance into the placement unit is competitive and subject to the approval of the academic chair; students must have a strong academic record to be considered.

N/A

Online modules or face-to-face workshops to prepare for the placement.

Prerequisites: Students must be enrolled in the BA (Public Relations) and have a distinction average. Enrolment requires permission of the Unit Co-ordinator.

Contact the academic chair if you are interested in enrolling in this unit.

### Public Relations Project (PRO302)

Credit Points: 3

MURDOCH: S1-internal  
KAPLAN-SGP: TMA-internal

This unit encourages students to explore an aspect of public relations in a semester-long, self-directed research project. Students may choose to research an industry-orientated project or investigate a scholarly topic. Students participate in seminars to encourage reflection and shared learning and are mentored by an academic supervisor. Students develop a research proposal, produce an original scholarly research report, and present their emerging findings.

Fortnightly two-hour seminars

NA

Prerequisites: MCC204 Public Relations: Contemporary Approaches or PRO204 Public Relations Strategy and BAR200 Developing Research Skills and Methods or MCC213 Communication Research or another research methods unit (subject to the approval of the unit coordinator).

### Public Relations Strategy (PRO204)

Credit Points: 3

MURDOCH: S2-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit explores public relations strategy from contemporary perspectives. Students are introduced to the complexities of strategic communication, through class discussion, case studies and readings on critical, ethical, rhetorical and discourse theories. Students research and develop communication strategies, putting into practice ideas about effective and responsible public relations and its role in developing reciprocal relationships between an organisation and its diverse stakeholders. Students learn to develop realistic objectives to evaluate campaigns.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Students are expected to read additional technical and academic articles, analyse contemporary communication campaigns and follow issues in the news and online media as part of their class and assessment preparation.

Prerequisites: PRO107 Introduction to Public Relations

Exclusions: Students who have successfully completed MCC204 Public Relations: Contemporary Approaches cannot enrol for credit in this unit.

### Public Relations, Communication and Culture (MCM605)

Credit Points: 3

MURDOCH: S2-internal

This unit explores the theory and practice of communication, drawing on recent public relations scholarship focusing on critical, global and cultural perspectives. Students will develop skills in academic reading, research and writing, and critically engage with theory to explore the challenges of communication management in different cultural contexts and the implications for public relations

practice. Topics include race and diversity in public relations; Indigenous stakeholder engagement; postcolonial perspectives and the role of public relations in nation-building.

Eight x three hours seminars.

Independent reading and analysis.

Prerequisites: Enrolment in graduate course of study.

Exclusions: Students who have successfully completed MCC546 Professional Communication or MCC685 Public Relations in Society cannot enrol in this unit.

### **Public Relations: Contemporary Approaches (MCC204)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This unit explores a range of contemporary theories of, and approaches to, public relations in key areas including corporate social responsibility, issues and crisis management, stakeholder engagement, community and employee relations. It provides a deepening of students' understanding of public relations theory and professional practice developed in previous units in the course and encourages a critical focus on ethical and rhetorical issues as these arise in the development and deployment of public relations strategies and tactics.

Lectures: 1 hour; tutorials: 2 hours.

Students are expected to read additional technical and academic articles, analyse contemporary communication campaigns and follow issues in the news and online media as part of their class and assessment preparation.

Prerequisites: MCC107 Introduction to Public Relations.

Exclusions: Students who have successfully completed MSC235 Public Relations: Principles and Writing Practice may not enrol in this unit for credit.

### **Public Sector Economics (SWM645)**

Credit Points: 3

Not available this year

This unit deals with the economics of the public sector. Government expenditures are one side of the budget and the purposes of these expenditures are reviewed along with evaluation techniques to assess the efficiency and equity associated with expenditures. On the other side are the sources of revenue in the form of taxes, intergovernmental grants, government borrowing, asset sales, and user charges. These sources of revenue are also examined for their efficiency and equity features.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in the Master of Public Policy and Management.

### **Public Sector Management (SWM515)**

Credit Points: 3

MURDOCH: S1-internal

Public sector managers use a range of instruments and strategies in the implementation of public policy. Examine the distinct character of public sector management and how this has changed across time. Explore the theories that have contributed to public sector reform and the assumptions informing new management modes. The aim is to equip students with a critical perspective on the

efficacy of public sector management tools and strategies, and how they may contribute to the delivery of 'public value'.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Prerequisites: Enrolment in the Graduate Certificate in Policy and Development, Master of Public Policy and Management, Master of Development Studies, Master of International Affairs and Security or Master of International Affairs.

Exclusions: Students who have successfully completed SSH615 Public Sector Management may not enrol in this unit for credit.

### **Publication Design (IDD201)**

Credit Points: 3

MURDOCH: S2-internal

This unit focuses on a wide range of desktop publishing techniques in the design and production of print publications. Concepts of pre-press, creating artwork for print, typography, layout and print production techniques are introduced at a theoretical level and implemented in practical project based work.

Online lecture; Media laboratories: 3 hours per week.

Prerequisites: IDD118 Introduction to Graphic Design

### **Pyrometallurgy (ENG325)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The unit considers principles and applications of unit operations involved in the pyrometallurgical processing of mineral concentrates and ores. This includes gas-solid, solid-liquid, liquid-liquid and liquid-gas reactions relevant to processes such as roasting, smelting and refining. Processes are examined through consideration of the thermodynamics and kinetics of interactions which occur among individual phases, the fluid mechanics, heat-transfer and mass transfer characteristics on the process and equipment side, techniques used to carry out these processes for particular commodities.

Lectures: 1 x 2 hours per week; Lecture/Workshop: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: ENG202 Engineering Thermodynamics, ENG255 Chemical Process Kinetics, ENG205 Process Mineralogy, and either/both ENG201 Fluid Mechanics and ENG203 Heat and Mass Transfer or ENG224 Principles of Unit Operations.

Exclusions: Students who have successfully completed the unit EXM302 Advanced Mineral Processing or ENG330 Mineral Processing may not enrol in this unit for credit.

### **Qualitative Organisational Research (MBS619)**

Credit Points: 3

Not available this year

Qualitative research focuses on understanding, rather than predicting or controlling phenomena. Many business researchers believe it an essential approach in the study of the complexities of people in organisations. The unit will examine the rationale and major principles underpinning qualitative research and consider popular methods in use. Students will consider the qualitative approaches to data collection and participate in a project requiring analysis and interpretation. The interaction with mixed methods approaches and the evaluation of research outcomes will also be examined.

Lectures/seminars/workshops: 3 hours per week for 5 of the 10 sessions.

Prerequisites: Enrolment in a graduate-level course.

### Quantitative Research for Business (MBS659)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

Statistics is a vital part of most decision-making processes. Both descriptive and inferential statistics are utilised to explain and interpret information. This unit introduces data analysis and decision-making tools for managers. Students will identify situations in which quantitative analysis can support problem solving and decision making. They will gain experience in applying decision analysis techniques and statistical packages in management contexts. These include the modelling of business research problems, presenting descriptive measures of quantitative data and reporting statistical inferences.

2.5 hour seminar per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Understanding of knowledge and communication of the knowledge is vital for student learning. The program incorporates individual learning and team learning, which are displayed in workshop participations and presentations.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS522/MBS622 Quantitative Methods for Business cannot enrol in this unit for credit.

### Radio Presenting and Producing (RAD244)

Credit Points: 6

MURDOCH: S1-internal

Welcome to the world of live radio! This semester you will be given a unique opportunity - to experience life in the real world of radio as any professional might experience it. Rotating in the roles of producer, presenter and journalist you will be responsible for producing and presenting a one hour live drive-time radio show, South Street, on Radio Fremantle 107.9FM, which will go to air each weekday afternoon catering for the local youth market.

Seminars: 1.5 hours per week, cover media law and ethics and the practice of live radio presenting and production; tutorials: 1 hour per week, cover time management, team-working, promo production, program design and program debriefing; technical workshops: cover audio editing, audio mixing, studio file management protocols and multi-studio operation.

Prerequisites: MCC105 Introduction to Radio and Sound Production or RAD105 Introduction to Radio

Exclusions: Students who have successfully completed MCC244 Radio Presenting and Producing cannot enrol in this unit for credit.

### Radio Professional Placement (RAD325)

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected final year students on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional centres will be full-time across four weeks (or part-time equivalent). During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

Determined by the placement type and unit coordinator.

Prerequisites: Enrolment is by permission of the Academic Chair.

Students will have completed Part I studies, and would normally be in their final year of study and achieved a GPA of 2.5 (out of 4).<sup>1</sup>

Students should contact the unit coordinator regarding enrolment.

### Radio Projects (RAD316)

Credit Points: 3

MURDOCH: S1-internal

Students will create a long form radio program or a radio studies conference paper that will showcase the research, interviewing, presentation, essay writing and production skills you have developed through your time here at Murdoch. The final audio products you produce will eclipse the work that you have created in the past. By the same token, your understanding of the radio research arena will be enhanced so you can contribute to the academic area of radio and audio media studies.

The unit provides small group consultation student-centred style learning. Students are encouraged to pursue their own learning narrative with academic support.

Prerequisites: RAD244 Radio Presenting and Producing

Exclusions: Students who have successfully completed MCC316 Communication Projects may not enrol in this unit for credit.

### Radiography: Principles and Positioning (CHI421)

Credit Points: 4

MURDOCH: T3-internal

Expands on principles discussed in years 2/3 relating to image production for most common types of imaging modalities and essential knowledge and skills needed for producing high quality diagnostic radiographs. Covers principles of radiation biology, regulations and practices relating to safety and patient protection; addresses management of in-house radiographic facilities. Practical workshops focus on radiographic positioning for all anatomical regions relevant to chiropractic practice. Utilises equipment in preparation for application within the University's chiropractic clinic. Incorporates undergraduate research stream.

Lectures/workshops: 4 hours per week:

3 hours on theoretical information regarding the generation of x-rays, x-ray interaction with matter, production of diagnostic images, and the basic workings of other types of diagnostic imaging such as CT, MRI and ultrasound. These theory lectures also include the biological effects of radiation, radiation safety, and imaging decision-making.

1 hour is a lecture on the radiographic positions to be undertaken each week.

Laboratories/practicals: 2 hours per week:

1 hour tutor-driven simulated radiographic positioning.

1 hour small group (5 or fewer) student-driven guided simulated radiographic positioning, including calculating x-ray beam factors individually for patients.

Prerequisites: Completion of the BSc Chiropractic or permission from the Academic Chair.

### Radiography: Principles and Positioning (CHI441)

*As for CHI421 except:*

Credit Points: 3

Not available this year

Lectures: 3 hours per week; Laboratory: 2 hours per week; Directed Learning: 1 hour per week.

In addition to the scheduled lecture and lab times, and the usual reading and study time, you will need to put in practice time on the radiographic equipment to develop your patient positioning skills.

This cannot be postponed towards end of semester exam time, as you will have great difficulty developing the necessary skills in a short period. Open access to non-x-ray-producing equipment in the radiology lab is available for this purpose. The clinic radiography equipment is available for supervised training. Incorporates undergraduate research stream.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BClinChiro), and successful completion of Years 1 to 3, as well as CHI440 and CHI456, or permission of the Unit Coordinator.

### Reactor Engineering (ENG335)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Students will learn the concepts of chemical reaction kinetics (order of reactions, elemental reactions, reaction mechanisms, steady state kinetics, temperature dependence of chemical reactions, the influence of catalysts on the reaction kinetics) and how these can be employed to choose and operate an appropriate reactor. Students are expected to be able to develop practical approaches to modelling complex reactions to obtain a rate equation: identify dominant effects and estimate the consequences of neglecting secondary effects, test assumptions and assess predictions, and analyse numerically.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week; laboratories: 2 x 3 hours per week.

Prerequisites: Completion of all Part 1 units in the majors Chemical and Metallurgical Engineering or Environmental Engineering.

Exclusions: Students who have successfully completed EXM224 Principles of Unit Operations may not enrol in this unit for credit.

### Reading Reconciliation (AIS356)

Credit Points: 3

MURDOCH: S2-internal, S2-external

The Aboriginal Reconciliation Movement (1991-2001) was the most significant socio-political movement regarding Indigenous/non-Indigenous relations since the 1967 Referendum. We examine the Keating Labor Government's original conception of Reconciliation, the Howard Government's 'practical Reconciliation', and post-Reconciliation strategies for equality. Acknowledging that Reconciliation was a struggle between lingering colonialist ideologies, post-colonial national identity construction, and desires for processes of decolonisation, the unit concludes by examining pertinent theoretical frameworks to more deeply consider the problem of decolonisation in settler societies.

Lecture/Workshop: 1 x 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed AIS281 Contemporary Indigenous Issues may not enrol in this unit for credit.

### Real Time and Embedded Systems (ENG319)

Credit Points: 3

MURDOCH: S2-internal

This unit provides thorough understanding, knowledge and practical experience in using embedded and computer-based systems in measurement and control applications. Topics: measurement systems; embedded systems, microcontrollers, program development environments; emulators, simulators and in-situ testing; a typical microcontroller and subsystems; watchdog and interrupts; digital signal processing; real-time embedded systems; DAQ Systems; analogue and digital I/O; sampling, aliasing

and signal conditioning; signal analysis and spectral content; buffered I/O; simultaneous input and output; counting and timing operations; dynamic system simulation.

Lecture/Workshop/Laboratory: 2 x 3 hours per week Monday and Friday.

In PS2.027

As this unit makes use of specialised equipment available only in the Industrial Computer Systems facility which is available 24/7, students must regularly practice their skills and build their knowledge and understanding. When within the facility, all students are encouraged to help each other and discuss problems and solutions with each other. As the background work for projects is also done outside of class in groups, these also provide an opportunity to develop group oriented skills.

Prerequisites: ENG109 Computing for Scientists and Engineers; ENG207/ENG262 Principles of Electronic Instrumentation; ENG294 Discrete Time Systems or ENG267 Process Dynamics and Control Systems.

### Reflective Practice in Health Management (SHP604)

Credit Points: 3

MURDOCH: S2-external

This unit focuses on reflective practice as an essential component of effective leadership and management. It explores the importance of self-awareness, and the interpersonal processes associated with effective communication, influence and persuasion. Frameworks for critical reflection are examined in the context of professionalism, supervision, lifelong learning, and research in the health care setting. Students will have the opportunity to examine how their beliefs, perceptions, experiences and backgrounds influence their ability to lead and manage.

External: No attendance required.

Prerequisites: SHP511 Strategic Leadership in Health Care.

### Refugee Law (LLB327)

Credit Points: 3

GENEVA: S2G-internal

This unit examines the origins and evolution of Australian and international refugee law. It will discuss the scope and limits of refugee's rights, impediments to asylum-seeking in domestic and international contexts, and pressures for refugee law reform. Students will be introduced to the system of refugee status determination in Australia including the legislative framework and significant court decisions. The problems of groups such as women and children will be discussed, and students will participate in refugee status determination simulations.

Lectures: 24 hours taught intensively over one week in the winter break.

Prerequisites: Successful completion of all Part 1 units in the LLB, LLB259 Constitutional Law, successful completion/concurrent enrolment in LAW258/LLB358 Australian Administrative Law

Exclusions: Students who have successfully completed LAW327 Refugee Law may not enrol in the unit for credit.

The S2G enrolment option for this unit is offered as part of the International Human Rights Law Program in Geneva, Switzerland. Enrolment in this program is by application which requires a deposit. Students enrolling in the program are responsible for their own airfares, accommodation and incidental expenses during the program. Contact the School of Law for further information.



**Rehabilitation and Physical Therapy I (CHI448)**

Credit Points: 3

Not available this year

Focus on the development, implementation and recording of an evidence-based biopsychosocial rehabilitation program. It takes the competencies developed in performing physical examination procedures for differential diagnosis and builds on those for the purpose of assessing the neuromusculoskeletal system, functional capacity and quality of life.

Provides instruction on the indications, and safe and effective use of a range of physical therapy modalities and the evidence-based use of selected pharmacy medicines.

Lectures: 3 hours per week; Laboratory: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc, BCLinChiro), and successful completion of Years 1 to 3, or permission of the Unit Coordinator.

**Rehabilitation and Physical Therapy II (CHI449)**

Credit Points: 3

Not available this year

Refines physical examination and implements functional examination skills for assessing the musculoskeletal systems and rehabilitation procedures. Provides further instruction on the indications, and safe and effective use of physical therapy modalities.

Lectures: 3 hours per week; Laboratory: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BCLinChiro) and successful completion of Years 1-4.

**Religion and Society (SOC209)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines relationships between society and religion using sociological concepts and approaches. Religion has been important for development of sociological ideas, ranging from Emile Durkheim's view that religion helps promote social solidarity to Karl Marx's position that religion encourages the working class to accept the social order as divinely sanctioned. This unit will also facilitate student reflection on the status of religion in late-modern societies such as Australia, characterised by globalization, pluralism, and secularism.

Lecture 1 hour/week; tutorial 1 hour/week.

External students will have the opportunity to listen to lectures and discuss the content of readings and lectures with fellow students in the online discussion forum on LMS.

Prerequisites: Nil.

It is highly recommended that students complete SOC134 Introduction to Sociology prior to enrolling in this unit.

**Religion in the Ancient World (REL312)**

Credit Points: 3

Not available this year

This unit provides insight into the polytheistic and monotheistic religion of the ancient world. The religions examined may vary from year to year, and may include ancient Mesopotamian, ancient Egyptian, and/or ancient Israelite religions, or religions of the Greco-Roman world. These religions are significant since, although ancient, they have been influential in shaping the modern world.

Lectures: 1 hour per week; tutorials: 1 hour per week.

Prerequisites: Nil.

**Renewable Energy and Sustainable Development (PEN587)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit addresses the challenges of assessing, designing, introducing and maintaining small scale sustainable energy technologies in developing countries, particularly in their rural areas. This unit provides a conceptual background to the design and implementation of renewable energy technology in developing countries. The problem is viewed in a holistic, rather than a purely technical way and a broad description of what constitutes renewable energy technology is adopted.

Lectures: 1 x 2 hours per week; workshops/tutorials: 1 x 1 hour per week.

Prerequisites: Enrolment in an Honours or Graduate-level course. Recommended: PEC592/PEN592 Energy in Society.

**Renewable Energy Devices (PEN621)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops key knowledge on the principles of operation, design, and installation requirements of the major renewable energy power generation devices, including photovoltaic cells, wind turbines, and solar thermal collectors. The devices used to convert or control power flows within systems are also discussed in terms of their function and operational requirements. The various energy storage options are also discussed. Online storybook laboratories are used to illustrate the operation and performance of selected devices.

Lectures/discussions: 1 x 3 hours per week; 2 practical sessions (Online storybooks are provided for external students).

Online storybooks are provided for external students.

Prerequisites: PEC590/PEN590 Energy Systems.

**Renewable Energy Dissertation (PEN624)**

Credit Points: 12

MURDOCH: H-internal, H-external, Y-internal, Y-external

This is a required unit for students in the MSc in Renewable Energy. Full-time students usually enrol over a full year concurrently with the coursework. Part-time students undertake it during the final year. It may consist of literature review and technology assessment or practical investigation of renewable energy system or device. A list of suitable topics is available from the Unit Coordinator or students may choose their own topic provided it is approved by the Unit Coordinator.

No attendance required.

As part of this unit a preparatory research skills module (equivalent to a quarter of the dissertation) is provided to assist the student in the preparation of a research proposal and the undertaking of a literature review. This module will also discuss skills involved in the analysis of data, and provide advice on the preparation of reports and presentations.

Prerequisites: Enrolment in the Master of Science in Renewable and Sustainable Energy or Master of Science in Renewable Energy or the Master of Renewable Energy.

There will be a different structure depending on whether the student is undertaking the Dissertation Unit at the start of the year

or in the middle of the year. If the student commences the unit at the start of the year, the Research Skills component of the Dissertation will be done in Semester 1 (3 points) and the remainder of the dissertation (9 points) will be done in the Semester 2. If the student commences the unit in the middle of the year, then the majority of the dissertation will be done in Semester 2 (including the 3 point Research Skills component) with the dissertation being completed in Semester 1 of the following year (3 points).

### Renewable Energy Resources (PEN622)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines the availability and distribution of various renewable energy resources such as solar radiation, wind, hydro, tidal, wave and biomass. The methods for measuring, monitoring and analysing these resources are described and some practical sessions are undertaken to illustrate these procedures. Principles for undertaking a resource assessment for a particular site are presented. This includes sources of data, analysis of that data and estimation of data when actual data is not available.

Lectures/tutorials: 1 x 3 hours per week; occasional practical sessions (internal students only).

Prerequisites: PEC592/PEN592 Energy in Society or equivalent.

Exclusions: Students cannot complete this unit and ENG307 Resources for Renewable Energy for credit.

### Renewable Energy Systems Design (PEN623)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on the design of renewable energy systems and in particular, on estimating the performance and economics of such systems. It will focus heavily on the use of computer-based design and simulation programs to estimate these parameters. The input data requirements, method of operation, and strengths and weaknesses of these computer-based tools will be presented. Students will use many of these computer-based tools to solve component sizing and design problems.

Lectures/workshop sessions: 1 x 3 hours per week.

Prerequisites: PEC590/PEN590 Energy Systems or equivalent.

Exclusions: Students cannot complete this unit and ENG351 Renewable Energy Design Workshop for credit.

### Renewable Energy Systems Engineering (ENG442)

Credit Points: 3

MURDOCH: S1-internal

This unit covers the design, commissioning and testing of standalone and grid-connected renewable energy systems. Topics include: simulation and system design, component sizing, housings and layout, cabling, earthing, commissioning, testing, monitoring, safety and standards; specification, design, impact, cost and performance of systems; relevant power system issues; power conditioning for grid applications. The unit will develop a thorough understanding of entire integrated systems and provide practical experience with working physical systems.

Lectures: 1 x 2 hours per week; workshops: 1 hour per week; laboratories: 1 x 3 hours per week.

Prerequisites: ENG337 Applied Photovoltaics, ENG338 Energy Supply and Management, ENG339 Wind and Hydro Power Systems.

### Reproduction and Obstetrics (VET463)

Credit Points: 3

MURDOCH: YM-internal

The reproduction section of this unit covers normal and abnormal reproductive physiology, endocrinology and anatomy in common domestic animals, and applies that information and understanding to veterinary situations. Lectures and practicals are conducted on examination of male and female animals, evaluation of fertility, control of reproduction, and diagnosis and treatment of reproductive diseases in domestic animals. Obstetrics lectures and practicals cover the processes of parturition in domestic species, with particular emphasis on diagnosis and correction of abnormalities of parturition.

Lectures: 33 hours; practical classes: 48 hours

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging.

### Research and Evidence Based Practice (BSC306)

Credit Points: 3

MURDOCH: S1-internal

This unit builds on BSC206 to combine advanced research methodology and evidence-based practice skills for health and performance-related sciences. This research evidence based combination uses research skills to independently identify a research question, select and formulate the best research methodology within ethical boundaries to obtain best scientific information and then address this question using this methodology. This unit also advances ability to understand more complex research methodologies, perform advanced literature searches, critically review the literature and apply the results.

Weeks 1 to 11: Lectures: 1 x 2 hours; computer laboratories: 1 x 2 hours.

Week 12: Lectures: 1 x 2 hours.

Readings of 1 per week will be discussed in the lecture.

Prerequisites: Completion of BSC206 Introduction to Research Methodology and Evidence Based Practice or special permission of Unit Coordinator.

### Research for Teaching (EDN616)

Credit Points: 3

MURDOCH: ST1-internal, ST1-external

Introduces Master of Teaching students to research. Key knowledge, skills and applications include: Reading scholarly literature and analysing published research pertaining to teaching; searching library databases and identifying relevant literature to a research topic; critically analysing arguments from literature that relates to a research question/topic; identifying appropriate methodological approaches for different research purposes; reflecting on the role of research in education and teaching. This unit also develops university graduate attributes.

Lectures/seminars: 6 x 2 hour on-campus sessions during teaching period.

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of all 500 level units and co-enrolment in EDN611 Professional Internship A: Differentiation within Diverse Contexts.

### Research in Education (Research Dissertation) (EDU700)

Credit Points: 12

MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external

This unit can be taken full or part-time. A written research proposal must be submitted to the School of Education Research Committee and presented orally to a research panel convened by the supervisors. The final proposal must have Research Ethics clearance before data collection can proceed. The thesis for the Master of Education (Research) provides a critical analysis of the topic under consideration and demonstrates an understanding of the theory and practice of educational research.

Students work on their doctoral study under the guidance of their supervisors. For full-time students, this means a minimum of 37.5 hours per week.

Prerequisites: Enrolment in the Master of Philosophy or the Master of Education (Research).

### Research in Education (Research Dissertation) (EDU900)

Credit Points: 12

MURDOCH: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external  
ROCKINGHAM: R1-internal, R1-external, R2-internal, R2-external, RAU-internal, RAU-external, RSP-internal, RSP-external

This unit can be taken full or part-time. A written research proposal must be submitted to the School of Education Research Committee and presented orally to a research panel convened by the supervisors. The final proposal must have Research Ethics clearance before data collection can proceed. The thesis provides a critical analysis of the topic under consideration and demonstrates an understanding of the theory and practice of educational research.

Students work on their doctoral study under the guidance of their supervisors. For full-time students, this means a minimum of 37.5 hours per week.

Prerequisites: Enrolment in the Master of Philosophy, Doctor of Education or Doctor of Philosophy courses.

### Research in the Physical and Life Sciences (BSC200)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Students will develop core skills in thinking about approaches to research within the context of their discipline. Research begins through the evaluation of innovation and significance of a research topic. This leads to development of the research plan, experimental design, with ethics and statistical analyses of data, justified by rationale and expected outcomes from quantitative and/or qualitative data sampling. Finally students will consider how research is presented and communicated (verbal/written), reflecting on the research process to guide lifelong learning.

Lectures: 1 hour per week; workshops: 1 x 2 hours per week.

Online assessment/Learning activity: 2 hours per fortnight.

Prerequisites: BSC100 Building Blocks for Science Students; OR enrolment in B1329 Bachelor of Education/Bachelor of Science and BED100 Ideas in Education.

Exclusions: Students who have successfully completed BSC201 Psychology: Measurement, Design and Analysis or BSC206 Introduction to Research Methodology and Evidence Based Practice or BSC203 Introduction to ICT Research Methods may not

enrol in this unit for credit.

### Research Internship (SWM619)

Credit Points: 6

MURDOCH: S1-internal, S2-internal

Undertaking a research internship, students develop and complete a specific project relevant to an industry, a professional workplace or a community organisation in a work-integrated-learning environment. Students are guided by a workplace supervisor and an academic supervisor. The research project is supported by a series of seminars which may include research design and the ethics of research, professional writing, and professional ethics and practice. Students completing the research internship demonstrate high level organisational and time management skills.

The principal activity of interns is undertaking their research project; there is also a series of seminars concerning research design and the ethics of research, professional writing, professional ethics and practice and the use of Library databases - depending on enrolments these are conducted either formally or informally. Students will then complete research assignments independently, in consultation and under the supervision of academic staff/ the unit coordinator and a workplace supervisor.

All interns will spend time in the workplace associated with their Internship/placement. In addition, interns undertaking a Parliamentary or Public Sector Internship may visit the Parliament of WA, and a number of public sector agencies such as the Equal Opportunity Commission, the Office of the Auditor General, the Office of the Ombudsman as appropriate and convenient to these agencies.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of International Affairs, Master of International Affairs and Security, Master of Health Administration, Policy and Leadership or Master of Health Policy and Leadership Affairs; completion of at least 24 credit points.

Exclusions: Students who have successfully completed SSH619 Research Internship may not enrol in this unit for credit.

### Research Methodology (VET666)

Credit Points: 3

MURDOCH: S1-internal

Students will become familiar with the ethics of clinical research and gain knowledge of fundamental concepts of designing and analysing clinical veterinary research. They are introduced to current investigative methods utilised for in vitro and in vivo veterinary research, and will appreciate the process of conducting clinical research and acquire skills to critically evaluate current literature in their field of study. A literature research exercise with an oral presentation of proposed study and a written grant application will be required.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Opportunity to review and critique class mates oral and written presentations in a constructive, non-threatening way.

Prerequisites: Permission of Unit Coordinator.

Exclusions: Students who have completed VET694 Evidence Based Clinical Practice may not take this unit for credit.



**Research Methods for Exercise Science (EXS590)**

Credit Points: 3

MURDOCH: T3-internal

This unit is designed to expose students to the skills necessary to become independent researchers. The primary goal for this unit is to introduce students to scientific decision-making with respect to research design, statistical analysis. Additionally, technical writing and presentation skills will be developed.

Workshop: 2 hours

Prerequisites: Enrolment in G1073 Graduate Diploma in Clinical Exercise Physiology or B1336 BSc/GradDipClinExPhys and completion of years 1-3.

**Research Methods for Law (BJU200)**

Credit Points: 3

MURDOCH: S2-internal

This is a research skills unit that combines the teaching of research methods with the development of the law of patents - an area of law with obvious political and economic ramifications. Four different research methods - doctrinal, socio-legal, economic and critical - will be adopted in the exploration of the changes in English law from the seventeenth to the twentieth centuries. Different perspectives, therefore, of the role of the Crown, the Parliament, the courts and society will be highlighted.

Five fortnightly 90 minute workshops to apply research methods to the law; 1 x 2 hour lecture per teaching week

Prerequisites: Successful completion of all Part 1 units in the LLB; or enrolment in the Graduate LLB degree and the successful completion of BJU100 and LLB120

**Research Methods in Exercise and Rehabilitation Sciences (EXS691)**

Credit Points: 9

MURDOCH: S1-internal

This unit is designed to provide higher level knowledge and proficiencies necessary for students enrolled within a Masters or Honours degree to undertake research in the exercise and rehabilitation sciences. Specifically, the unit will focus on issues relevant to research design, statistical analyses, and dissemination of information. Furthermore, this unit will be used to guide students in the process of completing a literature review and protocol development in their chosen area of study.

Lectures: 2 hours; Tutorials: 2 hours

Prerequisites: Enrolment in any Master's degree or Honours in Movement Science (BSc(Hons)) or Honours in Sport and Health Science (BSc(Hons)) or Honours in Exercise Physiology (BSc(Hons)) or Honours in Chiropractic (BSc(Hons)).

**Research Methods in Mathematics and Statistics (MAS514)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This unit provides an introduction to how research in mathematics and statistics is conducted and presented. Several aspects are considered, including mathematical rigour; types of mathematical proof; core topics in analysis and algebra; searching, reading and reviewing the literature; how to approach research; writing in mathematics and statistics; and the preparation and presentation of seminars. Students will gain practical experience through a literature review of an individual topic and an oral presentation.

Lectures: 3 x 1 hour per week.

Prerequisites: Enrolment in Honours in Mathematics and Statistics.

**Research Preparation for Business (MBS520)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TMA-internal, TSA-internal

The aim of the unit is to provide students with the opportunity to develop a critical understanding of the value of research in the business context in order to build business knowledge that generates new questions as well as providing answers. This unit covers a broad range of contemporary research designs in business-related disciplines. Topics covered include research problem discovery and definition; planning the research process; and presenting research.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Self-directed engagement and learning with online materials is an essential part of the learning experiences in this unit.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS620 Research Preparation for Business may not enrol in this unit for credit.

**Research Project (EDN617)**

Credit Points: 3

MURDOCH: DE7-internal, DE7-external

This is the capstone research project of the Master of Teaching. In this unit students will apply their knowledge and understanding of principles of educational research and will engage in a small-scale empirical research project of their choice that is relevant to the school context where they undertake their final placement. The project can be framed as action-research or case-study research but is not limited to these formats.

Lectures/seminars: 1 x 3 hours and 3 x 2 hours during the semester (9 hours); mini-conference: 1/2 day (4 hours)

Independent data collection and analysis activities relevant to research projects.

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of all 500 level units, successful completion of EDN611 Professional Internship A: Differentiation within Diverse Contexts, EDN612 Diversity and Inclusion, EDN613 The Integrated Curriculum in Primary Schools (HASS/HPE/Arts), EDN614 Science in the Primary Schools Curriculum, EDN616 Research for Teaching, and co-enrolment in EDN615 Professional Internship B: Research in Practice.

**Research Project and Thesis (ENG458)**

Credit Points: 12

MURDOCH: H-internal, Y-internal

On successful completion of this unit students will be able to plan, execute and report on a research project; select and make a process design of an appropriate metallurgical process for the profitable extraction of a metal/mineral on the basis of the results of the research; enumerate and discuss critical operating procedures of the chosen process; and produce a preliminary economic feasibility study. Students will prepare a thesis on their topic and present a seminar.

Seminars/tutorials: 1 per week; project meetings: as arranged by Supervisor but students should expect a minimum of 1 per week.

Prerequisites: EXM301 Mineral Processing, EXM302 Advanced Mineral Processing, EXM357 Extractive Metallurgy.

Students must complete the Safety in Science course prior to undertaking this unit. The Safety in Science course is usually run in the week before semester begins but students are urged to communicate with their proposed supervisor on the precise timing. All projects must be approved by the Unit Coordinator prior to the beginning of semester.

### Research Studies -- Psychology (PSY920)

Credit Points: 12

MURDOCH: R1-internal, R2-internal, RAU-internal

An innovative and systematic investigation of an appropriate research problem is required. A thesis supervisor will be appointed for each candidate from the University lecturing staff in Psychology. The thesis must be presented for examination in accordance with University requirements for Doctor of Philosophy (PhD) theses.

Students will meet regularly with a minimum of two supervisors and every 6 months with an Advisory Panel (comprised of the supervisors and an Advisory Panel Chair, appointed at the commencement of candidature in the doctoral program).

Prerequisites: Nil.

### Resilient Regions: People and Practice (SUS611)

Credit Points: 3

MURDOCH: SUM-internal (quota of 10 places), SUM-external, U-internal (quota of 10 places), U-external

This unit showcases sustainability in practice at a regional scale. The unit is immersive, interactive and practical. For internal students the unit includes a week-long residency in Denmark WA in early December. During the residency, field trips and case studies will cover: resilience; bioregionalism; sense of place; sustainable technologies; eco-entrepreneurism; and sustainable agriculture. There are extra costs for this unit to cover accommodation and food. External students will be expected to visit similar case studies in their own region.

Introductory session in late November. Week long residency in Denmark, Western Australia in early December. Assessment due in late January.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed STP611 Resilient Regions: People and Practice may not enrol in this unit for credit.

Students are responsible for some additional costs associated with the residence and associated field trips. Contact the Unit Coordinator for further details.

This unit is subject to quota. The internal enrolment option of this unit is subject to quota. Quota is due to limited accommodation for internal students, who undertake field work. Preference will be given to students nearing the end of their studies, and may also be based on academic performance. There is no quota for external students.

### Resilient Regions: Sustainability in Practice (SUS301)

Credit Points: 3

MURDOCH: SUM-internal, SUM-external, U-internal, U-external

This capstone unit showcases sustainability in practice at a regional scale. The unit is immersive, interactive and practical. For internal students the unit includes a week-long residency in Denmark WA in early December. During the residency, field trips and case studies

will cover: resilience; bioregionalism; sense of place; sustainable technologies; eco-entrepreneurism; and sustainable agriculture. There are extra costs for this unit to cover accommodation and food. External students will be expected to visit similar case studies in their own region.

Introductory session in late November. Week long residency in Denmark, Western Australia in early December. Final session in late January.

Prerequisites: Enrolment (and completion of at least 48 points) in one of the following majors: Sustainable Development; Community Development; International Aid and Development; Environmental Management and Sustainability; Conservation and Wildlife Biology; Environmental Science or enrolment with the approval of the Unit Coordinator.

Exclusions: Students who have completed STP311 or SUS302 Resilient Regions may not enrol in this unit for credit.

Students are responsible for additional costs associated with the residence and field trips. Contact the Unit Coordinator for further details.

This unit is subject to quota. Quota is only on the internal offering, due to limited accommodation during field work. Priority will be given to students enrolled in the Sustainable Development and Community Development majors.

### Rethinking Strategic Value of Markets and Consumers (MBS609)

Credit Points: 3

MURDOCH: T3-internal, T3-external

When business, societal and environmental realities evolve, the strategic value creation, communication and dissemination process also undergoes change. This module critically assesses these new realities in the context of a virtualised and globalised business world and evaluates its impacts on markets and consumers. The module will provide an analytical framework around which business problems can be tackled and strategic decisions made to better communicate and disseminate processes while enhancing strategic value.

3 hours x 2 days over 4 weeks

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### Rise of Asia and Modern History (AST531)

Credit Points: 3

Not available this year

Explore the organising concepts of historical inquiry and human society -- 'culture', 'society', 'modes of production' -- by considering the transformation of the Euro/American core and the rise of Asia since 1400, as a global process of political-economic and cultural interdependencies between capitalism and non-Western societies. The rise of Asia in modern history is best understood within the wider context of global capitalism. The transformation of Europe and rise of Asia cannot be separated: each is the other's history.

Lectures: 1.5 hours; tutorials: 1.5 hours.

Prerequisites: Enrolment in a graduate-level (AQF level 8 or AQF level 9) Asian Studies course or permission of the Unit Coordinator.

**Risk Analysis (University of Adelaide) (OTH545)**

Credit Points: 3

MURDOCH: S2-external

This course introduces approaches to risk analysis in the context of plant biosecurity. It will consider the purpose of risk analysis, and different methodologies for risk assessment and mitigation. In the past, risk analysis has been mostly qualitative, but now there is need to widen use of quantitative methodologies. Both qualitative and quantitative risk assessment methods will be introduced. This unit is offered by the University of Adelaide as PLANT SC 7260EX Risk Analysis. Refer to: <https://access.adelaide.edu.au/courses/search.asp>

Prerequisites: Enrolment in the Graduate Certificate or Graduate Diploma in Plant Biosecurity.

**Risk Analysis from Farm to Fork (VET657)**

Credit Points: 3

MURDOCH: S1-internal

Biosecurity offers a strategic and integrated approach to analyse and manage risks in food safety, animal and plant life and health, and biosafety. This unit focuses on the principles and practical application of the framework to structure and guide the application of risk analysis (encompassing risk assessment, management and communication) in food chain safety. Students will gain applied risk analysis skills needed to support safe food for all communities, and also serve as a requirement to open trade barriers between countries.

Workshops: delivered in intensive teaching mode (24 hours contact time - over one teaching week), which may include evenings and weekends. Students will then complete assignments independently, in consultation with teaching staff.

The approach to learning in this unit uses a subject-centred learning approach. Learning occurs through interactive workshops during in-class contact and discussions and an on-line forum with fellow students, and supported independent reading activities.

Prerequisites: Enrolment in Master of Biosecurity or permission of the Academic Chair.

This unit will be taught in intensive mode (pre-course distance reading assignments and one week interactive face-to-face workshop).

The unit is to be offered through intensive teaching mode (24 hours contact time over a week). Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

**Risk Management (MBS689)**

Credit Points: 3

MURDOCH: SUM-internal, SUM-external

This unit discusses an integrated risk management framework that can be applied to a wide range of industries. It covers risk management principles frameworks and processes, risk management strategic planning and corporate governance, information security, and crisis management. On completion of the unit students should have a comprehensive understanding of risk management techniques and risk management planning and be able to create a risk management plan for an organisation.

Lectures/seminars/workshops: 3 hours per week.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have successfully completed MBS572 Risk Management may not enrol in this unit for credit.

**Router and Firewall Security (ICT613)**

Credit Points: 3

MURDOCH: S1-internal

This unit examines current security threats to organisations and the necessary security processes required to mitigate these threats. Topics covered include: security policy design and management; security technologies, products and solutions, firewall and secure router design, installation, configuration and maintenance; AAA implementation using routers and firewalls; and virtual private networks.

Workshops: 1 x 3 hours per week.

Prerequisites: ICT535 Advanced Business Data Communications; enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT672 Network Security may not enrol in this unit for credit.

**Safety and Quality in Health Care (SHP501)**

Credit Points: 3

MURDOCH: S1-external, S2-external

This introductory unit is designed to foster knowledge and understanding of concepts, principles of safety and quality in healthcare. Participants will be introduced to practical approaches to safety and quality and evidence-based strategies that can be applied to the workplace. The World Health Organisation (WHO) Patient Safety Curriculum and the Australian National Safety and Quality Health Service Standards (NSQHS) inform the unit content.

Lectures/seminars: 6 x 4 hours distributed throughout the semester.

Prerequisites: Enrolment in a Graduate course.

Exclusions: Students who have successfully completed NUR601 Quality and Safety in Health Care may not enrol in this unit for credit.

**SCADA and Systems Architecture (ENG448)**

Credit Points: 3

MURDOCH: S1-internal

Workshops: 2 x 3 hours per week.

**Schooling and Society - Research Skills (BED300)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit enables prospective teachers to become intellectual professionals with experience in an educational research methodology by studying the societal discourses, past and present, that frame the profession of teaching. Students will conduct research using 'Critical Discourse Analysis' methodology as applied to populist media representations of teachers and schools. The aim of this unit is that the students will be able to analyse and negotiate the contested and complicated socially constructed terrain of the contemporary school.

Lectures: 1 hour per week; workshops: 2 hours per week

Prerequisites: Enrolment in a teacher education course. BED students must ALSO have successfully completed EDU101/EDU1011 Introduction to Teaching AND EDU103 Principles of Language and Literacy; OR BED150/EDN112/1121 Understanding Teachers' Work AND EDN111 Language for Learning and Teaching AND BED200 Assessment and Action Research OR EDN222 Learning Teaching and Assessment.

Exclusions: Students who have successfully completed

EDN331/EDN3311 Schooling and Society may not enrol in this unit for credit.

### Science and the Curriculum (Secondary) (Major) (EDN417)

Credit Points: 4

MURDOCH: S1-internal, S1-external

This unit offers opportunities for developing knowledge and understanding of curriculum and pedagogy in the upper secondary Science courses. Students engage with national and international science curriculum perspectives. The unit focuses on the structure and content of the upper secondary science curriculum, teaching strategies, curriculum planning, creation of learning resources and assessment. Through critical analysis and evaluation of curriculum documents, hands-on activities, programming, lesson planning and micro-teaching students gain knowledge, practical skills and expertise

Internal students: 2 x 2-hour workshops each teaching week.

External students: 5 x 2-hour online sessions.

Online tasks.

One workshop will be an excursion.

Internal students: 2 x 2-hour workshops each teaching week.

External students: 5 x 2-hour online sessions.

Online tasks.

Prerequisites: Enrolment in a teacher education course [either BEd (Secondary) or BEd (Secondary) (Graduate) or GradDipEd (Secondary)]; successful completion of BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching; a major in a science discipline relevant to high school science teaching.

Students should also be enrolled in EDN4101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary)/Bachelor of Science where taking this unit (EDN417) as a curriculum major

### Science in the Primary Curriculum (EDN614)

Credit Points: 3

MURDOCH: ST1-internal, ST1-external

This unit focuses on science knowledge and pedagogical content knowledge (how to teach science) that are needed to facilitate the development of primary school students' science literacy. Students will explore inquiry learning, alternative conceptions, engagement in science and other topics in science education associated with developing science literacy in the primary setting. This exploration is based on readings in science education research literature with emphasis on the development of materials to be used in primary science classrooms.

Seminar/Lectures/laboratories: 3.5 hours per week for 9 weeks

Prerequisites: Enrolment in the Master of Teaching (Primary) and successful completion of EDN5501 Transition to Teaching and EDN561 Learners and Learning Environments.

### Scientific Method in Engineering (BEN200)

Credit Points: 3

MURDOCH: S1-internal

This unit introduces the research skills that students will need to work with innovations in engineering technology. It takes students through full cycles of generating new knowledge and testing ideas by applying the scientific method. In the process of using the enquiry-based learning, students will develop skills in effective use of search engines, summarising scholarly articles on engineering

innovations, testing ideas by experiments and simple mathematical modelling, and communicating of findings as written paragraphs, website components and process simulations.

Lectures: 1 hour per week; workshops: 1 x 2 hours per week.

Learning activities required to complete this unit are

- . Laboratory experimental class
- . Computer lab classes
- . Group and individual work on website production
- . Group meetings
- . Online Peer Reviews

Prerequisites: BEN100 Transitioning into Engineering, BEN150 Design Concepts in Science and Engineering; ENG109 Engineering Computing Systems; MAS182 Applied Mathematics; PEN152 Principles of Physics.

### Screen Production 1 (SCR101)

Credit Points: 3

MURDOCH: S1-internal, S2-internal

This is an introductory unit for students who wish to learn how to produce film and television. Students are introduced to a variety of existing production crafts that can be applied within a location and studio production environment. These include scriptwriting, editing, camera, performance, sound and producing. Students will use these practical creative skills to produce two short films and a TV studio production.

Lectures: Pre-recorded: - online only; Workshop/Laboratories 2 hours per week (workshops and labs run concurrently).

Although not mandated, the majority of students work in small groups to support each other during their production based assessments - one of which occurs in the TV studio, and the other at locales of their choices. In order to become proficient in the operation of the various location equipment and facilities, students will need to practice outside of contact time.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED107 Screen and Sound Production I (TV Studio) or MCC128 Screen and Sound Production I (TV Studio) OR MCC128 Screen Production I OR H222 Screen Production may not enrol in this unit for credit.

### Screen Production 2 (MCC226)

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit encourages students to develop their intellectual and expressive capacities in video production. Students are taught aesthetic and conceptual conventions, operational and technical skills, and the production process by means of demonstrations and individual and group work. Students collaboratively produce short creative works in high-definition video within their chosen genre and style, resulting in two complete show-reel production pieces.

Lectures: 1 hour per week; tutorials: 2 hours per week.

Prerequisites: MCC128 Screen and Sound Production I (TV Studio) (or MED107 Screen and Sound Production I (TV Studio) or MED107 Screen Production I (TV Studio)) AND MCC116 Introduction to Screen and Sound Studies (or MED116 Introduction to Screen and Sound Studies or MED116 Introduction to Screen Studies).

Exclusions: Students who have successfully completed MED226 Screen and Sound Production II may not enrol in this unit for credit.

**Screen Production 2 (SCR201)**

Credit Points: 3

MURDOCH: S1-internal

Students collaboratively produce short creative dramatic or experimental works in high-definition video, resulting in show-reel production pieces. This unit encourages students to develop their intellectual and expressive capacities in video production. Students are taught aesthetic and conceptual conventions, operational and technical skills, and the production process by means of demonstrations and individual and group production work.

Lectures: online; tutorials: 2 hours per week for 10 weeks of the semester.

Students will work in groups on set to create screen productions for assessment.

Prerequisites: SCR101 Screen Production 1 or MCC128 Screen Production.

Exclusions: Students who have successfully completed MCC226 Screen Production 2 may not enrol in this unit for credit.

**Screen Production I (MCC128)**

Credit Points: 3

DUBAI-ISC: TMD-internal

This is an introductory unit for students who wish to learn how to produce film and television. Students are introduced to a variety of existing production crafts that can be applied within a digital video environment. These include scriptwriting, editing, camera, performance, sound and producing. Students will use these practical creative skills, to produce short videos to develop an understanding of film style, performance and genre.

Lectures: 1 hour per week; workshops: 2 hours per week.

Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Although not mandated, the majority of students work in small groups to support each other during their production based assessments - one of which occurs in the TV studio, and the other at locales of their choices. In order to become proficient in the operation of the various location equipment and facilities, students will need to practice outside of contact time.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED107 Screen and Sound Production I (TV Studio) or MCC128 Screen and Sound Production I (TV Studio) (or H222 Screen Production) may not enrol in this unit.

**Screen Text (SCR348)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to methodologies for and approaches to screen analysis. It provides a theoretical foundation for students to write critically about screen art and culture. The focus of the unit is on teaching students how to apply such concepts as narrative, genre, authorship, reception and representation to screen texts within a number of theoretical perspectives. By the end of the unit students will be able to interpret screen texts in a systemic scholarly manner.

Lectures: 1 hour per week; workshops: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC248/ MCC2481 Screen Texts may not enrol in this unit for credit.

**Screen Texts (MCC2481)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit addresses the question of how film makes sense from a broad context of historical, political, socio-economic, and cultural perspectives. It provides a theoretical foundation for students to think critically about cinema and to write about screen art in a scholarly manner. The unit consists of two learning blocks: (1) methodological questions of how films are studied; and (2) aesthetic questions of narratology, genre, and authorship, as well as questions of the representation of gender, race and minority groups.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MED232 Screen Texts may not enrol in this unit for credit.

This unit is restricted to students enrolled at the Dubai campus.

**Screen Writing and Development (SCR550)**

Credit Points: 3

Not available this year

This unit focuses on conceptualising, writing, and developing film ideas for later production in the second semester of this course. Students will work towards finding stories that they are connected to and passionate about. They will then workshop these to create interesting worlds, characters with depth that engage audiences, and a cohesive, concise, and creative plot. This unit is aligned with industry processes and practices, and will benefit all film-makers, from producers, through sound recordists, to grips and directors.

This unit will be taught using one 2.5 hour workshop each week.

Prerequisites: Enrolment in Graduate Diploma in Media Production

**Screen: Small, Medium and Large (CMS201)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

This unit will provide historical perspectives on the emergence of cinematic, domestic and mobile screens. It will introduce students to a range of approaches in the study of contemporary screen culture and visual literacy. The unit will also consider the convergence and divergence of media platforms, interfaces and content. This will include issues concerning participatory media, gamification, remediation of old and new media and the ongoing evolution of the web.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

**Second/Foreign Languages and the Curriculum (Major) (EDN416)**

Credit Points: 4

MURDOCH: S1-internal, S1-external

The aim of this unit is to provide intending teachers of a second or foreign language with necessary skills in the areas of curriculum design and implementation. The unit comprises the general study of language and the curriculum, together with providing some opportunity for working with specific language curricula. It examines language teaching practice, and gives students the opportunity to explore a variety of classroom techniques and approaches.



Workshops: 2 x 2 hours per week.

Prerequisites: Enrolment in Bachelor of Education (Secondary) and successful completion of EDN550 Transition to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching. Completion of, or concurrent enrolment in EDN4101 Professional Experience: BEd Secondary

### **Security Architectures and Systems Administration (ICT379)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TSA-internal

This unit will consider the architecture and administration of a secure computing environment from several perspectives: that of the local machine, a networked computer system, and finally an organisational IT infrastructure. The unit provides an understanding of the hardware and software environment required to support security and mitigate risks, reviews models of system security, and reviews techniques to evaluate and measure system security. Throughout these areas, systems analysis tools and techniques will be introduced to support these security goals.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: ICT287 Computer Security.

### **Security, Conflict and Violence (SWM635)**

Credit Points: 3

MURDOCH: S2-internal

Security is increasingly at the forefront of discourse, deliberations and conflict over the legitimacy of emerging forms of political authority and the distribution and control of resources and power. No longer a sole prerogative of the state, security has become a space of contestation between various social interests. This unit critically examines the politics of security, and in particular the relationship between security, conflict and political violence, with case studies such as the War on Terror and humanitarian interventionism.

Seminars are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in Master of International Affairs, Master of International Affairs and Security, Master of Development Studies, or Master of Public Policy and Management.

Exclusions: Students who have successfully completed POL608 International Security and Strategy or SSH635 International Security and Strategy or SWM635 International Security and Strategy may not enrol in this unit for credit.

### **Semester in Indonesia (IND243)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Students spend a semester studying at an Indonesian university, undertaking various studies, which may include intensive language, fieldwork and area studies.

Prerequisites: Vary, but admission requires permission of the Unit Coordinator and at least a credit average in Murdoch units. Host institutions may have particular requirements for admission.

Students can take a maximum of 24 points in this unit through the ACICIS (Australian Consortium for In-Country Indonesian Studies) program. Places are limited and all intending students must apply

to the Academic Chair in advance after obtaining approval of the Indonesian language co-ordinator, who will determine the appropriate level of enrolment. Strict conditions and additional costs may apply.

Graduate students should enrol in IND532.

Students undertaking this unit will need to be aware of Travel Advisories as published by the Department of Foreign Affairs and Trade (DFAT).

A result of Ungraded Pass or Fail is awarded for this unit.

### **Semester in Indonesia (IND443)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Students spend a semester studying at an Indonesian university, undertaking various studies, which may include intensive language, fieldwork and area studies.

Prerequisites: Vary, but admission requires permission of the Unit Coordinator and at least a credit average in Murdoch units. Host institutions may have particular requirements for admission.

Students can take a maximum of 24 points in this unit through the ACICIS (Australian Consortium for In-Country Indonesian Studies) program. Places are limited and all intending students must apply to the Academic Chair in advance after obtaining approval of the Indonesian language coordinator, who will determine the appropriate level of enrolment. Strict conditions and additional costs may apply.

Students undertaking this unit will need to be aware of Travel Advisories as published by the Department of Foreign Affairs and Trade (DFAT).

A result of Ungraded Pass or Fail is awarded for this unit.

### **Semester in Indonesia (IND543)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Students spend a semester studying at an Indonesian university, undertaking various studies, which may include intensive language, fieldwork and area studies.

Prerequisites: Vary, but admission requires permission of the Unit Coordinator. Host institutions may have particular requirements for admission. Plus IND361 Indonesian III (minimum 4 points).

Students can take a maximum of 24 points in this unit. Places are limited and all intending students must apply to the Academic Chair. Strict conditions and additional costs may apply. Graduate students should enrol in the appropriate level code for this unit except where the course structure states otherwise. Contact the Asian Studies Office for further information.

Students undertaking this unit will need to be aware of Travel Advisories as published by the Department of Foreign Affairs and Trade (DFAT).

This unit May include a project or internship with approval of the Unit Coordinator.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Semester in Japan (JPN443)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

This unit encompasses various studies in Japan, including intensive language, fieldwork and area studies.

Prerequisites: Requires permission of the Unit Coordinator and at least a credit average in Murdoch units. Host institutions have particular requirements for admission.

Students can take a maximum of 24 points in this unit. Places are limited and all intending students must apply to the Unit Coordinator. Strict conditions and additional costs apply. Contact the Unit Coordinator for further information.

Students undertaking this unit will need to be aware of travel advice as published by the Department of Foreign Affairs and Trade (DFAT).

A result of Ungraded Pass or Fail is awarded for this unit.

### **Semester in Japan (JPN543)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

This unit encompasses various studies in Japan, including intensive language, fieldwork and area studies.

Prerequisites: Requires permission of the Unit Coordinator. Host institutions have particular requirements for admission.

Places are limited and all intending students must apply to the Unit Coordinator. Strict conditions and additional costs apply. Contact the Unit Coordinator for further information.

Students undertaking this unit will need to be aware of travel advice as published by the Department of Foreign Affairs and Trade (DFAT).

A result of Ungraded Pass or Fail is awarded for this unit.

### **Seminar in the Study of Religion (REL311)**

Credit Points: 3

Not available this year

This unit will focus on advanced theoretical and methodological approaches to the study of religion. The unit will use one or more specific religious traditions as the focal point. This unit is the capstone experience for the Religion major. The key component of the unit will be a research project that demonstrates the learning outcomes of the major.

Lecture: 1 hour per week; tutorial: 1 hour per week.

Prerequisites: Completion of a minimum of 48 points, including a minimum of 15 points in Religion. The 15 points in Religion must include the identified core units from years 1 and 2.

### **Seminars in Veterinary Clinical Studies (VET679)**

Credit Points: 3

MURDOCH: H-internal, Y-internal

This unit explores issues that are pertinent to all areas of clinical veterinary medical research. The students are required to present one formal seminar during the unit, to critique and reflect on one of the seminars presented, and attend and participate in discussion/questions.

Seminars: 1 x 1 hour per fortnight. There are approximately 25 seminars scheduled per year. Attendance at >80% (> 20) is necessary.

Prerequisites: Enrolment into Master of Veterinary Clinical Studies or Doctor of Veterinary Medical Science.

### **Services Marketing (BUS268)**

Credit Points: 4

DUBAI-ISC: TMD-internal

The learning objectives of this unit are based on analysing the differences between services and tangible goods, and the marketing implications of those differences. The development of marketing strategies for service organisations will be critically examined and

include conducting research projects of selected service organisations. The importance of services marketing, online and offline, in both service and manufacturing industries will be analysed together with customer service, relationship marketing and service quality concepts.

Lectures/workshops: 3 hours per week.

Prerequisites: BUS169 Principles of Marketing or BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS324 Services Marketing or BUS296 cannot enrol in this unit for credit.

### **Services Marketing (BUS296)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

The learning objectives of this unit are based on analysing the differences between services and tangible goods, and the marketing implications of those differences. The development of marketing strategies for service organisations will be critically examined and include conducting research projects of selected service organisations. The importance of services marketing, online and offline, in both service and manufacturing industries will be analysed together with customer service, relationship marketing and service quality concepts.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS169 Principles of Marketing or BUS183 Foundations of Marketing

Exclusions: Students who have successfully completed BUS268/BUS324 Services Marketing may not enrol in this unit for credit.

### **Sex and Gender Matters (POL226)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers normative and theoretical perspectives on sex and gender - and why these matter for life, happiness and justice. The perspectives are examined through topics including: gender and nature; science of gender difference; masculinities; divisions of paid and unpaid work; politics of sexuality; gender and security; and gender and development. Students are encouraged to reflect on their own gendered positions and to link the personal and familiar with the political and structural.

Lectures, tutorials and on-line discussion.

Prerequisites: Nil.

Exclusions: Students who have completed POL216 Sex and Gender Matters may not enrol in this unit for credit.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement.

### **Shakespeare (EGL348)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit addresses questions surrounding the canonical status in literary and theatrical fields of the Shakespearean text and focuses on ways in which power functions in the cultural matrix within which Shakespearean productions occur, whether written or

performed. The unit will provide students with an introduction to Shakespeare 'poetics', and an opportunity to read closely several plays. The workshop component has a Theatre in Education focus and allows students to perform excerpts from a selection of Shakespeare's plays.

Lectures: 1 hour per week; seminars 1 hour per week; workshops 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EGL308 Shakespeare may not enrol in this unit for credit.

### Shipping Law (LLB339)

Credit Points: 3

Not available this year

This unit provides an overview of the law applicable to the commercial trade of shipping. It deals with the legal relationships brought about during carriage of goods by sea, including bills of lading, waybills, and the various types of charter parties. The unit considers the complex matrix created by custom, principles of common law (such as tort, contract and bailment) and civil law, international conventions and the laws of individual nations in governing this important area of commercial trade.

Lecture: 2 hours per week.

Prerequisites: Successful completion of all Part 1 units in the LLB and completion of LAW260/LLB260 Contract Law

Exclusions: Students who have successfully completed LAW339 Shipping Law may not enrol in this unit for credit.

### Small Animal Medicine (VET452)

Credit Points: 4

MURDOCH: S2-internal

This unit teaches rational approaches to medical problems (both diagnosis and treatment) encountered in dogs and cats. Lectures follow a body system program and laboratories will reinforce these principles in a practical setting. Students at the end of this unit will be able to formulate differential diagnoses lists, diagnostic plans and treatment options for a wide variety of clinical problems.

Lectures: 4 x 1 hour per week; (60 hours); practicals: 1 x 2 hours per week (24 hours).

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice.

### Small Animal Practice (VET614)

Credit Points: 6

MURDOCH: ASP3-internal

This unit will use and build on the skills and knowledge acquired in previous units, which represent the structure and function of the normal animal, and pathology, the study of disease states. This unit is a foundation for practical work that will be performed in final year and for clinical companion animal practice following graduation. Knowledge and skills developed in this course will provide an essential basis for a career involving clinical skills with dogs and cats.

Lectures: 4 x 1 hour per week; Workshops: 1 x 3 hours per 4 weeks, 1 x 2 hour (once-off) to outline assignment.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### Small Animal Practice 1 (VET617)

Credit Points: 6

Not available this year

This is one of two units (SAP 1 and SAP 2) that offer supported practical training across all aspects of small animal practice. Multiple types of training are offered continuously and students rotate through in small groups. SAP 1 includes Small Animal Medicine, General Practice, Shelter Medicine, Dentistry, Wildlife Medicine and Ophthalmology.

### Small Animal Practice I (VET585)

Credit Points: 3

MURDOCH: YMV-internal

This is one of two units (SAP 1 and SAP 2) that offer supported practical training across all aspects of small animal practice. Multiple types of training are offered continuously and students rotate through in small groups. SAP 1 includes Small Animal Medicine, General Practice, Shelter Medicine, Dentistry, Wildlife Medicine and Ophthalmology.

Tutorials and clinic training: 30 hours per week average.

Prerequisites: Pass grade in VET419, VET451, VET453, VET454, VET455, VET457, VET458, VET459, VET463.

Successful completion of SAP 1 and SAP 2 is a prerequisite for graduation with a BVMS degree.

### Small Animal Practice II (VET586)

Credit Points: 3

MURDOCH: YMV-internal

This is one of two units (SAP 1 and SAP 2) that offer supported practical training across all aspects of small animal practice. Multiple types of training are offered continuously and students rotate through in small groups. SAP 2 includes Small Animal Surgery, Anaesthesia (large and small animal), Emergency and Critical Care and Dermatology. Students completing these units will graduate competent for registration and employment in small animal clinical practice.

Tutorials and clinical training: average 30 hours per week.

Prerequisites: Pass grade in VET419, VET451, VET459, VET453, VET454, VET455, VET457, VET458, VET463.

Successful completion of SAP 1 and SAP 2 is a prerequisite for graduation with a BVMS degree.

### Small Animal Surgery (VET457)

Credit Points: 3

MURDOCH: YM-internal

This unit covers the fundamentals of surgical management of diseases of the dog and cat. The unit content is presented on a systems basis, with the major soft tissue areas (gastrointestinal, urinary, reproductive, cardiorespiratory) covered in Semester 1, and orthopaedics and neurology presented in Semester 2. Laboratory classes are used to develop surgical and other clinical skills.

Lectures: 48 hours in S1; laboratories: 72 hours over S1 and S2.

Prerequisites: Enrolment in Applied Veterinary Medicine. Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice.

### Small Animal Surgery and Diagnostic Imaging (VET607)

Credit Points: 3

MURDOCH: ASP3-internal

This unit combines lectures, laboratories, and workshops in Small Animal Surgery, Small Animal Orthopaedics and Spinal Neurology, and lectures and workshops in Diagnostic Imaging.

Lectures: 58 hours

Workshops: 60 hours

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM;  
Successful completion of all 2nd and 3rd year units.

### Small Ruminant and Camelid Health and Management (VET633)

Credit Points: 3

MURDOCH: T1-internal

This unit covers the important diseases affecting the health and management of small ruminants and camelids, providing students with the relevant day one competence knowledge in history taking, diagnostic procedures and health management of individuals and herds. The diseases of current relevance will be covered with reference to aetiology, pathogenesis, clinical signs, diagnosis, management and prevention. Students also will have the opportunity to improve skills in practical classes.

Lectures: 32 lectures

Practicals: Rumenotomy (1 prac given)

Practicals: (Ruminant based practicals given as part of the Bovine Health and Management VET632 unit)

\* Ruminant eye surgery and anaesthesia (cadaver)

\* Ruminant regional anaesthesia of the hoof and surgical amputation of the claw (cadaver legs)

\* Ruminant epidural and regional anaesthesia

LMS tasks/assignments

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM;  
Successful completion of all 2nd and 3rd year units.

### Small Ruminant Medicine and Production (VET419)

Credit Points: 2

MURDOCH: S2-internal

This unit covers the diagnosis, treatment, prevention and control of diseases of sheep and goats. Particular emphasis is placed on the prevention of disease and correction of management and nutritional factors affecting production. The general principles involved in the investigation of sheep flock and goat herd problems and formulation of herd and flock health and production programs is emphasised.

Lectures: 36 hours; laboratories: 12 hours.

Prerequisites: Enrolment in Applied Veterinary Medicine.  
Completion of VET459 Surgical Secrets, VET456 Anaesthesia, Emergency and Critical Care, VET462 Veterinary Diagnostic Imaging, VET461 General Small Animal Practice.

### Social and Welfare Law (LEG323)

**As for LLB323 except:**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Lectures: 2 hours per week

Prerequisites: Successful completion of LEG100 Law, Justice and Social Policy or LEG150 Australian Legal System (prior to 2012) or

BUS165 Principles of Commercial Law or BSL165 Foundations of Business Law or permission of the Unit Coordinator and Academic Chair.

Exclusions: Students who have completed LAW323/LEG223/LLB323 Social and Welfare Law may not enrol in this unit for credit.

### Social and Welfare Law (LLB323)

Credit Points: 3

MURDOCH: S2-internal

An introduction to substantive areas of law which affect the majority of average, low-income citizens. Specific areas which may be explored: social security law, landlord/tenant law, public housing law, criminal injuries compensation, and domestic violence. This unit will also focus on the manner in which problems and disputes in each of the areas are addressed and resolved by legal and government institutions. This unit will be valuable for those students intending to work in community law centres.

Lectures: 2 hours per week

Prerequisites: Successful completion of all Part 1 Units in the LLB

Exclusions: Students who have completed LAW323/LEG323/LEG393/LEG223 Social and Welfare Law may not enrol in this unit for credit

### Social Media Analysis (WEB566)

Credit Points: 3

MURDOCH: S1-internal

This unit explores the application of communication technologies with an emphasis on digital and social media. It considers the use of social media in professional, government and community and public relations contexts. Students develop skills in audience research, campaign planning and the resources required to engage in the application of an online social media strategy for a variety of online contexts.

Seminars/workshops: delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff. Lectures will be delivered online.

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

### Social Policy and Community Action (COD214)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to equip students with an understanding of social policy and the community context in which it operates. The unit focuses on the intersection between social policy and the many challenges and opportunities present in community-based work. Students will be encouraged to consider concepts such as social justice, equity, and wellbeing and how these are interpreted at a social policy level. Students will also begin to develop skills in social policy research and analysis.

Lectures: 10 x 1 hour; tutorials: 10 x 1.5 hours.

Written assignments, reading, viewing of practice examples and reflection on community development practice.

Prerequisites: Nil.

**Social Science Research Design (SWM618)**

Credit Points: 3

MURDOCH: S1-internal

This unit develops the skills required to undertake the thesis writing process. It emphasises the importance of disciplinarity and sub-disciplinarity (or fields of knowledge) to thesis writing and the attitudes and practices necessary for contributing to a field of knowledge. Key issues include the nature of a thesis, understanding intellectual communities, contributions to knowledge, the literature review and the development of effective research proposals. Students will be provided with the tools required for undertaking a thesis writing process.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will undertake in class and out of session exercises, and complete the set assessment task independently, in consultation with teaching staff.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of International Affairs, Master of International Affairs and Security, Master of Health Administration, Policy and Leadership or Master of Health Policy and Leadership. Completion of at least 24 credit points with 70+ grade average. Co-requisite: SWM617 Supervised Research Thesis.

**Society and Environment Curriculum (Secondary) (Major) (EDN418)**

Credit Points: 4

MURDOCH: S1-internal, S1-external

This unit encourages students to develop a practical and critical understanding of the principles and practices of teaching and learning in the Humanities and Social Sciences (HASS) curricula for Years 7 - 12 in Western Australian secondary schools. Particular attention is given to the construction of HASS curricula within the context of the Australian Curriculum. The unit explores the various ways in which student learning outcomes may be developed, monitored and assessed.

Workshops/tutorials: 2 hours per week

1 hour lecture per week will be delivered via LMS

Prerequisites: Enrolment in a teacher education course [either BEd (Secondary) or BEd (Secondary) (Graduate) or GradDipEd (Secondary)]; successful completion of BED150/EDN112/EDN1121 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching.

EDN418: completion or near completion, of a major in the Social Sciences or its equivalent and enrolment in EDN4101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary).

**Society, Culture and Ecology in Asia (AST350)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Asia is a region of extraordinary cultural and ecological diversity. This unit combines approaches from anthropology, sociology, and ecology to explore the 'traditional' adaptations and 'modern' transformation of cultures in the region.

The effects of globalisation and development policies on these societies will be considered, with special attention to indigenous minorities and rural communities. The impacts of social and environmental change as a result of the green revolution, population pressure, urbanisation, industrialisation, overfishing, deforestation and tourism will also be addressed.

Lectures: 2 x 1 hour per week; films: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

**Sociology and the Modern World (SOC211)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is designed to equip students to understand the modern world using contemporary sociological theories. Students will learn to apply the latest sociological concepts and perspectives to understanding events in their everyday lives and world issues. In the process, students will tackle some of the key questions facing today's society, such as how do people construct identity and belonging in a globalised world, and what is the role of power and social control in the regulation of social life?

Seminar: 2.5hrs per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed SOC105 Sociology and Everyday Life, SOC205 Sociology and Everyday Life or SOC207 Classical Sociological Theory cannot enrol for credit in this unit.

It is highly recommend for students to have completed SOC134 Introduction to Sociology prior to enrolling in this unit.

**Software Architectures (ICT306)**

Credit Points: 4

DUBAI-ISC: TJD-internal

The objectives of this unit are to study different software architectures and their implications for software design. Major topics include: pipe-filter architecture and regular expressions, Client-Server architecture, batch versus run-time validation design, object-oriented design and UML, dynamic binding and inheritance, event-based architecture, finite state machines and GUI design, Petri Nets, multithreading and synchronisation, layered architectures, design patterns and other architectures. The Java programming language will be used to demonstrate implementations.

Lectures: 1 x 2 hours per week; computer laboratories: 1 hour per week.

Prerequisites: ICT104 Principles of Computer Science OR ICT167 Principles of Computer Science; ICT231 Systems Analysis and Design OR ICT239 Software Development Frameworks.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the lab exercises for that week. In addition, each student is required to complete two assignments and sit the final examination.

**Software Architectures (ICT373)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TMA-internal

The objectives of this unit are to study different software architectures and their implications for software design. Major topics include: pipe-filter architecture and regular expressions, Client-Server architecture, batch versus run-time validation design, object-oriented design and UML, dynamic binding and inheritance, event-based architecture, finite state machines and GUI design, Petri Nets, multithreading and synchronisation, layered architectures, design patterns and other architectures. The Java programming language will be used to demonstrate implementations.

Lectures: 1 x 2 hours per week; Computer laboratories: 1 hour per week.

Prerequisites: ICT104 Principles of Computer Science OR ICT167 Principles of Computer Science; ICT231 Systems Analysis and Design OR ICT284 Systems Analysis and Design.

Exclusions: Students who have successfully completed ICT306 Software Architectures cannot enrol in this unit for credit.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time working on the lab exercises for that week. In addition, each student is required to complete two assignments and sit the final examination.

### Software Development Frameworks (ICT239)

Credit Points: 4

Not available this year

This unit aims to provide an introduction to software development frameworks with an emphasis on language interoperability, platform independence and software reuse using Microsoft .NET Framework. Topics include: Common Language Runtime, .NET Framework Class Library, C# and other .NET languages, and application packaging and deployment. It also discusses the history and background of .NET and its relationship with J2EE.

Lectures: 2 hours per week; laboratories: 2 hours per week.

Prerequisites: ICT102 Introduction to Computer Science.

### Software Development Frameworks (ICT365)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit aims to provide a general understanding of software development frameworks, and the practical experience and skills in using an important software development framework, with an emphasis on language interoperability, platform independence and software reuse using Microsoft .NET Framework. Topics include: Common Language Runtime, .NET Framework Class Library, C# and other .NET languages, and application packaging and deployment. It also discusses the history and background of .NET and its relationship with J2EE.

Lectures: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: ICT167/ICT104 Principles of Computer Science and ICT284/ICT231 Systems Analysis and Design

Exclusions: Students who have successfully completed ICT239 Software Development Frameworks may not enrol in this unit for credit.

Each student is expected to spend on average three hours per teaching week reading the lecture notes, books chapters and other recommended materials relevant to the topic covered in that week and spend a similar amount of time trying out the lab exercises for that week. In addition, each student needs to complete two major assignments and sits for the final examination.

### Solar Thermal and Biomass Engineering (ENG441)

Credit Points: 3

MURDOCH: S1-internal

This unit provides students with fundamentals and technical information on both solar thermal and biomass engineering systems. The solar thermal part consists of 6 lectures, covering fundamentals, typical solar thermal applications and engineering design methods. The biomass engineering part consists of 6 lectures, covering fundamentals of biomass conversion

technologies, environmental aspects of biofuel production, as well as techno-economic assessment and life-cycle analysis of biofuels. The lectures of the unit will be backed by laboratories and/or site visits.

Lecture/workshop: 1 x 3 hours per week (notionally 2 hours of lecture and 1 hour of tutorial or workshop) for the 12 teaching weeks.

Laboratory sessions: 1 x 3 hours per week for all teaching weeks apart from Week 1.

Site visit may be involved regarding to microalgal biofuel production and other aspects on solar thermal and biomass conversion.

Prerequisites: PEN120 General Physics (or PEN152 Principles of Physics); BEN100 Transitioning into Engineering; ENG298 Principles of Process Engineering; ENG337 Applied Photovoltaics; ENG338 Energy Supply and Management; and ENG339 Wind and Hydro Power Systems.

### Soldiers and Civilians: War in the Pacific 1941-1945 (HIS258)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit consists of a comparative history of the Pacific War, considering Japanese, Australian and American perspectives and the war in its political, social, cultural and military aspects. Topics include the role of the Japanese emperor, the debate over the Pearl Harbor attack, the experience of Australian prisoners-of-war, Japanese wartime civilian experience, the internment of Japanese civilians in Australia and the USA, the importance to all sides of concepts of race, the naval war and kamikaze pilots.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who successfully completed HIS226 Soldiers and Civilians: War in the Pacific 1941-1945 cannot enrol in this unit.

### Sonnet to Song: Understanding Poetry (EGL344)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to the study of poetry through studying the various connections between poetry, music and song. The emphasis is on understanding, appreciating, analysing and enjoying poetry. The unit deals with the nature of poetic genres, theories of classification, processes of reading, methods of analysis and key issues in the interpretation of poetry. No previous experience in studying poetry is necessary. It is possible to write a poem for one of the assignments.

Seminar/tutorials: 1.5 hours.

Prerequisites: EGL121 Turning Points in Literature.

Exclusions: Students who have successfully completed EGL331 Sonnet and Song: Understanding Poetry may not enrol in this unit for credit.

### Sound Design (SOU376)

Credit Points: 3

MURDOCH: S1-internal

Sound Design as a term refers both to the creation of individual sounds and the overall discipline of creating a unified sound component of a creative work. This unit extends skills in recording, editing and mixing sounds to create and synthesise new sound elements, or entire soundtracks, for particular outputs such as

industrial sound design, film and television, installations, as well as interactive media such as games or simulations.

Lecture/Seminars: 1 fortnightly; Media Lab: 2 hour weekly

Occasionally guest lectures may be given, e.g. via skype with international practitioners discussing their work. These events are often timetabled outside normal class times to accommodate the significant time differences between the participants.

Prerequisites: MCC268/SOU268 Music Technology AND MCC214/SOU214 Sound Production.

Exclusions: Students who have successfully completed MCC376 Sound Design may not enrol in this unit for credit.

### Sound Production (SOU214)

Credit Points: 3

MURDOCH: S1-internal

Combines critical study of the production of sound for media with an opportunity to develop specialist skills in the recording of music. Gain an understanding of a range of sound production techniques, such as microphone usage, sound mixing, analogue and digital production techniques, with an introduction to acoustics and psychoacoustics. Access industry standard equipment and technical training, and develop professional, technical and artistic skills and practices.

Seminars: 1 hour per week; workshops: 2 hours per week.

Prerequisites: SOU101 Introduction to Audio Production.

Exclusions: Students who have successfully completed MCC214 Sound Production may not enrol in this unit for credit.

### Sound Professional Placement (SOU325)

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected final year students on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional centres will be full-time across four weeks (or part-time equivalent). During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

Consultations with Unit Coordinator.

Prerequisites: Enrolment is by permission of the Academic Chair. Minimum GPA of 2.5 is required.

Students should contact the unit coordinator regarding enrolment.

### Sound Projects (SOU378)

Credit Points: 3

MURDOCH: S2-internal

This unit extends the practical, critical and research skills developed in each of the units in the degree. This unit is designed to be the final production unit in the Sound major. It brings together many of the concepts and skills developed in each of the units in the Sound major in a client-based project. Students are also encouraged to explore collaborative links with other students within the Sound major and in other disciplines.

Seminars/workshops: 3 hours per week for first 8 weeks; individual consultation thereafter.

Prerequisites: SOU268 Music Technology (or MCC268 Music Technology) and SOU214 Sound Production (or MCC214 Sound Production).

### Soundtrack (SOU377)

Credit Points: 3

MURDOCH: S2-internal

Sound used in conjunction with images provides a powerful yet invisible way of affecting our experience. This unit aims to explore the use of sound in audio-visual productions such as films, television and games. The creative use of sound and music in drama, children's television, first person player games and documentary are among the areas that are examined. Students will gain a critical awareness of the potential of sound and music with moving images.

Lecture-seminars: 1 x 1 hour per fortnight; film screenings: 1 x approx. 90 minutes per fortnight; media laboratories: 1 x 1.5 hours per week.

Prerequisites: SOU169 Introduction to Sound Studies

Exclusions: Students who have successfully completed MCC377 Soundtrack may not enrol in this unit for credit.

### Special Project in Media Production (SCR503)

Credit Points: 3

Not available this year

Students develop and create a short film of their own design. Students work within a group in their chosen role to put together a funding application and crowd-funding campaign for the film. All applications will be assessed by an industry panel who will determine which films will get made, and which one receives the generous amount of cash funding. Students will then be taken through the creation stages of their film in pre-production, production, and post-production.

Weekly production meetings and ongoing supervision and mentorship.

Prerequisites: Completion of SCR538 Advanced Media Seminars and SCR588 Professional Placement in Media Production and enrolment in Graduate Diploma of Media Production.

### Special topic: Counterterrorism Polices & Practices (POL319)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Asia's experience with terrorism has been protracted. While the Malay Communist insurgency ended with the British COIN campaign, the LTTE in Sri Lanka was vanquished after a full-blown military attack and the Maoist insurgency in Nepal terminated with a political settlement. But several armed extremist movements continue. The al Qaeda and the Islamic State have added new complexities to states' quest to end such extremist movements. This unit provides a comparative analysis into the counter-terrorism policies and practices in Asia.

Weekly 1.5 hour lecture and 1.0 hour tutorial

Prerequisites: Nil.

### Special Topic: From Al Qaeda to the Islamic State: Assessing Terror Threats (POL219)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides a comprehensive analysis into the origin and dynamics of and threats posed by the AQ and IS in the Indo-Pacific region. Focusing on their recruitment pattern and financing and propaganda techniques, the unit attempts to unravel the effectiveness and longevity of global terrorist formations. 'If the AQ

could be weakened, could the IS be defeated?' is a familiar question. Will that scenario end terrorism, however, is a more important question that this unit attempts to discuss.

Weekly 1.5 hour lecture and 1.0 hour tutorial

Prerequisites: Nil.

### **Special Topics in Asian Studies (AST253)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Asian Studies (AST510)**

Credit Points: 3

Not available this year

### **Special Topics in Australian Indigenous Studies (AIS250)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Australian Indigenous Studies (AIS530)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Biological Sciences and Biotechnology (BIO280)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Business (BUS201)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Business (BUS2011)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Business (MBS699)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Criminology (CRM300)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Development Studies (SWM640)**

Credit Points: 3

Not available this year

Prerequisites: Nil.

### **Special Topics in Education (EDN211)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Education (EDN411)**

Credit Points: 4

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Education (EDU611)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills (EDN311)**

Credit Points: 3

MURDOCH: SB7-internal (closed as the offering has reached capacity)

Based on Tribes TLC(R) basic training program. Equips beginning and in-service teachers to apply the Tribes process and strategies to design, develop and create positive learning environments for their students. Learn about cooperative, group and social learning theory; experience/learn how to implement a wide range of practical cooperative learning strategies in a variety of learning environments. Explore strategies for initiating faculty groups for planning, peer coaching and at support school level, in the area of cooperative curricula and system change.

Face-to-face experiential workshop (4 days intensive)

Contribute to the LMS discussion board

Complete required readings and activities provided on the LMS

Prerequisites: Enrolment in an undergraduate degree in Initial Teacher Education

### **Special Topics in Education: Tribes TLC(R) Training and Cooperative Learning Skills and Research (EDU511)**

Credit Points: 3

MURDOCH: SB7-internal (closed as the offering has reached capacity)

Based on Tribes TLC(R) basic training program. Equips beginning



and in-service teachers to apply the Tribes process and strategies to design, develop and create positive learning environments for their students. Learn about cooperative, group and social learning theory; experience/learn how to implement a wide range of practical cooperative learning strategies in a variety of learning environments. Explore strategies for initiating faculty groups for planning, peer coaching and at support school level, in the area of cooperative curricula and system change.

Face-to-face experiential workshop (4 days intensive)

Contribute to the LMS discussion board  
Complete required readings and activities provided on the LMS

Prerequisites: Enrolment in, or completion of an initial teacher education course OR enrolment in G1025 Graduate Diploma in Education (Tertiary and Workplace) or M1208 Master of Education (Coursework).

### **Special Topics in Environmental Science (ENV330)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in History (HIS2871)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Information Technology (ICT228)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Information Technology (ICT330)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Information Technology (ICT560)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Information Technology (ICT660)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in International Affairs (SWM650)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Law (LLB300)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Legal Studies (LEG300)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Philosophy (PHL283)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Philosophy (PHL383)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Public Policy and Management (SWM660)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Sociology (SOC272)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

### **Special Topics in Sustainability (SUS601)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

**Special Topics in Sustainability: Behavioural Change and Sustainable Living (SUS250)**

Credit Points: 3

MURDOCH: SUM2-internal (closed as the offering has reached capacity)

This unit brings together sustainability theory and practice, equipping students with the skills and knowledge to make sustainable lifestyle decisions and to critically reflect on individual lifestyle choices. The unit focuses on behavioural change and involves hands-on sustainability activities. The skills acquired in this unit are transferable life skills such as problem solving, creativity and capacity building, which not only will equip students for their future careers but also help foster a community of sustainability practice.

13 x 3-hour workshops held during Summer term.

The unit includes both in-class activities and practical outside activities and field trips.

Prerequisites: Nil.

This unit is timetabled on for the following dates: 5/12/2016; 6/12/2016; 8/12/2016; 15/12/2016; 22/12/2016; 12/01/2017; 18/01/2017; 31/01/2017; 02/02/2017; 09/02/2017

**Special Topics in Sustainable Development (SUS640)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

**Special Topics in Theology (THE274)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

**Special Topics in Theology (THE473)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

**Special Topics in Tourism (TOU228)**

Credit Points: 3

Not available this year

This unit comprises study in particular topics which vary from year to year.

**Special Topics Review (CHI589)**

Credit Points: 2

MURDOCH: T3-internal

Review a range of vital topics which are essential components for clinical practice. Aim: to review and append relevant clinical subjects such as: rheumatology, orthopaedics, neurology, paediatrics, geriatrics, radiology, rehabilitation This unit involves some didactic lectures on musculo-skeletal disorders but is heavily weighted towards students preparing and delivering cast reports from their own experience in clinic.

Lectures: 2 hours per week; project work/seminars: 2 hours per week.

Prerequisites: Enrolment in BSc/BChiro and the successful completion of Years 1 to 4; concurrent enrolment in CHI584 Clinical Practicum.

**Spies, Saboteurs and Secret Agents (HIS257)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines the growth of the 'secret world' of modern intelligence communities during the twentieth century, including the intelligence they provided, their use by governments in peace and war, and their influence on policy and events. Topics include: intelligence and special operations during the two world wars, the Cold War and the 'war on terror'; signals intelligence and codebreaking; the nature of the 'intelligence cycle' and intelligence failures; and the evolution of intelligence communities in the main world powers.

Lectures: 1.5 hours per week; tutorials: 1 hour per week

Prerequisites: Nil.

Exclusions: Students who have previously completed HIS230 Spies, Saboteurs and Secret Agents may not enrol in this unit for credit.

**Spirituality (THE528)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Over the past decades, attention has been increasingly focused on the spiritual lives of persons whether viewed from a religious, philosophical or secular perspective. Ministers, chaplains, health care professionals, teachers and those involved in different community services are often faced with spiritual matters which impact on the health and well-being of those they serve. This unit will examine some of the issues related to spiritual care.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

Prerequisites: Enrolment in graduate level study.

Exclusions: Students who have successfully completed THE538 Spirituality cannot enrol in this unit.

**Sport and Exercise Psychology (EXS201)**

Credit Points: 3

MURDOCH: S1-internal

Sport and Exercise Psychology seeks to respond to a paradox of Western culture; the well-established benefits of regular exercise and the persistence of many to a sedentary lifestyle. This unit will introduce a key component of sport and exercise psychology: motivation. Students will learn how to apply key psychological principles to increase exercise participation and adherence. Additionally, students will explore motivation and performance in (elite) sport.

Lectures: 2 hours; Workshops: 2 hours.

Prerequisites: Nil.

Exclusions: Students who have successfully completed CHI224/EXS224 Sports Psychology may not enrol in this unit for

credit.

### **Sport Education (EDN356)**

Credit Points: 3

MURDOCH: S1-internal

This unit focuses on the development of Sport Education, a 'games sense' approach to physical education. The unit will address the needs of children, adolescents and young adults in sport while maximising their education, engagement and long-term participation in physical activity. Students will also learn about coaching, officiating and facilitating sport and physical education. On unit completion students will be able to design, develop and implement student-centred learning programs in a variety of sporting and education contexts.

Lectures: 1 x 1 hour per week; Practical Workshops: 1 x 2 hours per week.

Completion of online Intermediate Officiating Course for Department of Sport and Recreation

Prerequisites: Successful completion of EDN116/EDU107 Physical Education.

Exclusions: Students who have successfully completed EDN319 Sport Education (Minor) OR EDN3191 Sport Education may not take this unit for credit.

### **Sports Biomechanics (CHI674)**

Credit Points: 4

Not available this year

This unit will allow the student to gain knowledge in biomechanics within the field of sports science. It will encompass discussion in the areas of sports biomechanics specifically addressing physics and human kinetics in areas such as, but not limited to, ball games, gymnastics, athletics, swimming, etc. The focus will be on movement analyses, injury prevention, and performance enhancement from a biomechanical point of view.

External.

Prerequisites: Completion of Chiropractic Degree or equivalent. Enrolment in the Master of Sports Science.

### **Sports Law (LLB209)**

Credit Points: 3

Not available this year

This unit considers the law as it relates to sport in Australia and several areas of international interest. It provides an overview of numerous legal issues related to the sports industry such as: issues concerning doping; whom does a team doctor owe their duty of care; when can athletes be criminally charged for violent acts; do sporting disciplinary tribunals function legally; how should a sporting organisation deal with claims of discrimination; and when is a referee legally liable in tort.

Lecture: 24 hours (intensively taught over 1 week) (approx. 5 hour per day for 5 days).

Prerequisites: Nil.

### **Sports Nutrition (CHI689)**

Credit Points: 4

Not available this year

This unit will allow the student to build on basic nutrition knowledge (gained from undergraduate sports science and health training) and gain distinctive proficiency in sports nutrition within

the field of sports science and sports chiropractic. The unit will encompass discussion in the areas of sports nutrition and its practical implications on the athlete's general health, performance and injuries.

External: No attendance required.

Prerequisites: Completion of Chiropractic degree or equivalent. Enrolment in the Postgraduate Diploma in Sports Chiropractic.

### **Sports Practicum (EDN357)**

Credit Points: 3

MURDOCH: S2-internal

This unit is designed for 1-10 HPE students to develop the instructional and relational skills necessary to be an effective HPE practitioner through sports coaching in a community context. Specialist coaches will deliver theory and practical components of their Level 1 (or equivalent) coaching course during O Week. Each student will then align with a junior sporting team, either within a school or club, to apply the skills gained from the coaching courses.

An intensive week (8:30am to 5:00pm) during the Semester 2 Orientation Week; 1 x 1 hour introductory lecture in the first week of semester, and mentoring workshops will be scheduled throughout Semester 2.

Students will complete a coaching practicum within a school or club team. This includes coaching within both training and match environments. Students will complete 20 hours for their placement.

Prerequisites: Enrolment in Education (BEd) [Primary, 1-10 Health and Physical Education]; completion of EDN319/EDN3191 Sport Education OR EDN356 Sport Education.

This unit requires students to engage in Level 1 (or equivalent) coaching courses during Orientation week prior to Semester 2. These courses will be run Monday to Friday from 8.30am to 5.00pm.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Sports Psychology (CHI679)**

Credit Points: 4

Not available this year

This unit allows students to gain knowledge in sports psychology within the field of sports science. The unit will introduce key psychological theories that impact on athletes and coaches, in addition to discussing several families of psychological skills applicable to sport.

External: No attendance required.

Prerequisites: Enrolment in the MSc in Sports Science including completion of 24 points of graduate work such as the Postgraduate Certificate/Diploma in Neuromusculoskeletal Rehabilitation or the Postgraduate Diploma in Sports Chiropractic, or their equivalents.

### **Stakeholder Governance in a Business-Society Ecosystem (MBS637)**

Credit Points: 3

Not available this year

This unit addresses key issues around business and governance from a multi-stakeholder perspective, and aims to equip students with knowledge and skills that will allow them to develop innovative 'shared-value' and responsible business solutions. This Unit is grounded on the 3 key streams of the School of Business and Governance: business, politics/governance and sustainability.

3 hours x 2 days over 4 weeks

7

Prerequisites: Enrolment in the Executive Master in Leadership, Strategy and Innovation

### States, Social Forces and Development (SWM611)

Credit Points: 6

MURDOCH: S2-internal

Why do development programs succeed or fail? Can we find the answers in good governance and the design of institutions, social forces and conflicts, governing ideas, or some mix of these? Answering this question means grappling with the politics of reform - who wins, who loses, what ideas gain traction, and when - and the role of political and economic crisis in generating reform responses. This unit examines changing roles of the state, aid effectiveness and approaches to gender and development.

Seminars and workshops are delivered in intensive teaching mode (32 hours contact time including structured learning activities), which may include evenings and weekends. Students will then complete research assignments independently, in consultation with teaching staff. The course will be seminar based and include structured learning activities.

Prerequisites: Enrolment in a graduate-level course.

Exclusions: SWM530 Politics, States and Development, SWM537 Gender and Development

### Statistical Data Analysis (MAS183)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS183 introduces students to data collection methods and statistical analysis techniques commonly encountered in the life and health sciences. Topics: numerical and graphical description of data, probability and sampling distributions, sampling methods, basic statistical inference (confidence intervals and hypothesis testing), statistical analysis of relationships, non-parametric methods using statistical software and interpreting its output, reporting statistical conclusions, interpreting statistical results reported in scientific literature.

Lectures: 3 x 1 hour per week; laboratories/tutorials: 1 x 1 hour per week; optional Peer Assisted Study Session (PASS): 1 hour per week.

A range of optional tutorials, labs, clinics, workshops and peer study sessions provide learning help and enrichment as needed.

Prerequisites: Nil.

MAS183 assumes fluency in mathematics at about the level of Year 10 in Australian high schools. Students enrolling in MAS183 are invited to do a Maths Diagnostic Quiz which will refer them to maths learning support if this may be helpful. Please contact the Unit Coordinator if you have any concerns about your maths background.

### Statistical Design and Data Analysis (MAS353)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is designed for applied statisticians and scientists who need to apply the principles of statistical science to collect, analyse, interpret and present data of high quality. The rich class of statistical techniques known as regression models, which includes multiple regression, analysis of variance and covariance, and logistic regression are covered. Case studies and student projects explore the use of these techniques on real data from a variety of disciplines using statistical computing packages.

Lectures: 3 x 1 hour per week; computer laboratories/tutorials: 1 x 1 hour per week.

None.

Prerequisites: MAS222/MAS278 Probability and Statistical Inference OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management.

Exclusions: Students may not enrol in this unit and either of MAS180 Introduction to Statistics or MAS183 Statistical Data Analysis concurrently. Students who previously successfully completed MAS374 Statistical Design and Data Analysis cannot enrol in this unit for credit.

### Statistics for Teaching Secondary (7-10) (MAS541)

Credit Points: 3

MURDOCH: S2-external

This unit provides an introduction to statistical techniques used to collect, summarise, interpret and present numerical information. This includes graphical displays, estimation and testing, including one- and two-sample tests, frequency tables, and regression. Students are introduced to the use of a spreadsheet package for the analysis of data. Through project work, students will also learn about real-world applications of statistical methods and how the methods can be taught effectively in the secondary education curriculum.

Prerequisites: Enrolment in Graduate Certificate in Education (Secondary Mathematics 7 - 10)

### Stories of doing Community Work (COD201)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Community development is a set of ideas and range of practices used in a variety of contexts by many different groups. This unit provides an understanding and appreciation of the diverse settings and areas of practice within community development in contemporary Australia. Students will develop skills and experience in describing and critically reflecting upon practical examples of community development. In addition, students will learn skills to help with the preparation of funding applications.

Lectures/workshops: 9 x 2 hour lectures, 9 x 1 hour tutorials. Some guest lectures from community development practitioners.

Written Assignments, reading, viewing practice examples and reflection on community development practice.

Prerequisites: Nil.

Exclusions: Students who have successfully completed COD235 Community Work across Sites, Settings and Peoples may not enrol in this unit.

### Strategic Communication (MCM506)

Credit Points: 3

MURDOCH: S1-internal

Explore the main theoretical perspectives that inform organisational communication and situate them in relation to the strategic communication skills necessary for those in not-for-profit, public sector and corporate organisations.. Examine the importance of organisational culture and communication with stakeholder groups. Develop the conceptual ability to link the development of organisational goals with communication practices appropriate for the political environment and learn to conduct professional communication within a diverse range of environments

Seminars that include discussion, group work and presentations: 8 x 3 hours.

Reading recommended texts; work in groups.

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC687 Managing Communication or MCC681 Strategic Communication may not enrol in this unit for credit.

### **Strategic Health Leadership and Management (SWM519)**

Credit Points: 3

MURDOCH: W-internal, W-external

This unit is designed to provide students with knowledge on leadership and managerial approaches pertaining to health care organisations. Lectures will be delivered by both academics and guest industry leaders. The overall objective is to introduce students to issues in healthcare leadership and management in Australian and global health industries, as well as developing appropriate competencies to work effectively in health organisations. The unit aims at developing essential strategic health leadership for effective management of health services and projects.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Prerequisites: Enrolment in a graduate-level award.

### **Strategic Management (BUS317)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

This is a capstone unit which is aimed at preparing students to think strategically, and to look at all the issues and problems affecting the strategic initiatives of an organisation, from a total corporate perspective. The unit provides a conceptual framework of corporate strategy and policy formulation, and integrates the key functional areas for business including, organisational learning, innovation, knowledge management, marketing, finance and human resource management for strategic decision making.

Lectures: 1 hour per week; workshop: 2 hours per week.

Prerequisites: BUS223 Organisational Theory and Behaviour or BUS240 Organisation Development and Human Resources Management or BUS298 Organisation Development and Change or BUS297 Principles of Human Resources Management or BUS293 Organisational Theory and Behaviour

### **Strategic Management (BUS349)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This is a capstone unit which is aimed at preparing students to think strategically, and to look at all the issues and problems affecting the strategic initiatives of an organisation, from a total corporate perspective. The unit provides a conceptual framework of corporate strategy and policy formulation, and integrates the key functional areas for business including, organisational learning, innovation, knowledge management, marketing, finance and human resource management for strategic decision making.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS223 Organisational Theory and Behaviour or BUS240 Organisation Development and Human Resources Management; BUS298 Organisation Development and Change or BUS293 Organisational Theory and Behaviour

Exclusions: Students who have successfully completed BUS317

Strategic Management may not enrol in this unit for credit.

### **Strategic Marketing (BUS350)**

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TMA-internal

This is the capstone unit of the Marketing major. It provides a comprehensive and practical understanding of the strategic marketing management process in a competitive environment. A central focus is the preparation of a strategic plan for a specific product or service. The unit develops the generic skills of strategic thinking, planning, design, formulation, implementation and communication. It provides a succinct review of key issues in strategic marketing research and the current state of the marketing industry.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS273/BUS299 Consumer Behaviour; BUS235/BUS210 Marketing Research and Analysis or MCC213 Communication Research

Exclusions: Students who have successfully completed BUS382 Strategic Marketing may not enrol in this unit for credit.

### **Strategic Marketing (BUS382)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This is the final capstone unit of the marketing major degree. It provides a comprehensive and practical understanding of the strategic marketing management process in a competitive environment. A central focus is the preparation of a strategic marketing plan for a specific product or service. The unit develops the generic skills of strategic thinking, planning, design, formulation, implementation and communication. It provides a succinct review of key issues in strategic marketing research and the current state of the marketing industry.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS273 Consumer Behaviour; BUS235 Marketing Research and Analysis or MCC213 Communication Research (for Digital Marketing students)

### **Strategic Marketing Management (MBS5072)**

*As for MBS537 except:*

Credit Points: 3

MURDOCH: SUM-internal, U2-internal, U2-external

Seminars: South Street Murdoch 3 x 2.5 hours per week during the teaching semester.

Prerequisites: Enrolment in C1083 Postgraduate Certificate in Business Administration (MasterClass) or C1115 Graduate Certificate in Business Administration (MasterClass).

Exclusions: Students cannot enrol in both MBS5072 Strategic Marketing Management and MBS507 Strategic Marketing Management for credit.

Students in C1083 Postgraduate Certificate in Business Administration (MasterClass) will be enrolled in MBS5072.

**Strategic Marketing Management (MBS537)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit offers a sound foundation in marketing management strategy, which is relevant for all types of profit and not for profit businesses and organisations. Marketing management strategy is essential practice for all brand and service operations. The main topics include the marketing mix, product life cycle, consumer behaviour, the competitive environment, strategic options, market positioning, international marketing and online marketing. Learning activities in class and assignments include developing and presenting a strategic marketing plan for an actual organisation.

Workshops: 2 hours per teaching week for South Street Campus and at MUISC Dubai

Workshops: 4 hours per fortnight at Kaplan SGP

Prerequisites: Enrolment in a graduate-level course.

Exclusions: Students who have completed MBS507 or MBS5072 may not enrol in this unit for credit

**Strategic Research in International Markets (MBS574)**

Credit Points: 3

MURDOCH: SP21-internal  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TMA-internal

Strategic Research in International Markets focuses on developing skills practical in nature, and based on theory. This unit presents a practical understanding of how marketing research is conducted internationally. Students will gain the capability to effectively plan and manage market research projects, and conduct basic data analysis. The unit draws together the research skills and knowledge required to fulfil a marketing management role in the context of international marketing.

Workshops: 2 hours per teaching week for MUISC Dubai.

Seminars: South Street Murdoch 2 x 6 hours (Saturday); 4 x 3 hours Thursday.

Workshops: 4 hours per fortnight at Kaplan SGP

Independent study of recommended and self-generated journal articles and various business publications according to individual interests, abilities and opportunities for cross-cultural issues.

Prerequisites: Nil.

**Strategies for Effective Learning and Teaching (EDN568)**

Credit Points: 3

MURDOCH: ST3-internal, ST3-external

This unit examines the knowledge and skills required to effectively plan and implement learning experiences based on knowledge of how students learn and effective teaching and assessment strategies. Students will analyse, evaluate and apply a range of theories related to instruction, behaviour management and assessment. Students will attend school one day per week throughout ST4 providing opportunities to apply and reflect upon the use of strategies. Further opportunities for practise are provided in the co-requisite unit - EDN567 undertaken in ST4.

Lectures/workshops: 2 hours per week over 10 weeks

Completion of weekly learning activities.

1 day per week distributed school placement throughout ST3.

Prerequisites: Enrolment in the Master of Teaching (Primary).  
Successful completion of EDN5501 Transition to Teaching, EDN561

Learners and the Learning Environment, EDN563 Literacy and Learning and successful completion of / or co-enrolment in EDN562 Numeracy and Learning.

**Strategies for Growth and Excellence (MBS664)**

Credit Points: 6

MURDOCH: S2-internal, S2-external  
DUBAI-ISC: TJD-internal, TSD-internal  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit enables students to investigate how firms and organisations design and execute effective strategies. Exploring relevant issues: macro - globalisation, market competition, environmental, sustainability, information communication technology, meso - government regulatory frameworks, shareholder and stakeholder needs, and micro - resources, leadership and organisational culture and climate. Students analyse recent case studies and 'hot topics' in strategy drawn from the media and business journals.

Seminars: South Street Murdoch 4 x 6 hours (Saturday); 4 x 3 hours Thursday.

Seminars (Kaplan SGP and MUISC Dubai): 8 sessions at 4 hours per session.

At all locations there are 16 structured coaching hours assigned for this unit.

Prerequisites: Enrolment in the Master of Business Administration, Master of Business Administration Professional Practice, or Master of Human Resources Management.

Exclusions: Students who have successfully completed MBS647 Strategic Decision Making; MBS606 Strategic Decision Making; MBS666/MBS686 Economics and Business Strategy may not enrol in this unit for credit.

**Strength and Resistance Training (EXS103)**

Credit Points: 3

MURDOCH: S2-internal

This unit will focus on current scientific principles of strength and resistance training primarily in the healthy population. While the role of ageing and gender will be discussed, a large portion of the unit will focus on the strength and resistance training aspects associated with athletes and otherwise healthy individuals. The student will then be able to apply these principles to other individuals adopting sedentary behaviours and living with lifestyle-related disease such as cardiovascular disease, obesity and diabetes.

Lectures: 2 hours; laboratories: 2 hours per week.

Peer health assessment with fellow student.

Prerequisites: Nil.

Exclusions: Students who have successfully completed CHI225 Principles of Strength and Conditioning or EXS225 Strength and Resistance Training may not enrol in this unit for credit.

**Structured Workplace Learning Placement - Information Technology (ICT687)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal

Students who have gained an internship or placement within organisations appropriate to the course of study (most often based on competitive application for positions made available through the ACS (Australian Computer Society) Foundation) may be provided with the opportunity to include an Industry and Professional Experience Program within their course of Study.

Contact time for the unit to be discussed with the Academic Supervisor and the employer.

The focus of the learning experience is work-readiness within an industry context. Students will also investigate and report on a topic of relevance to the workplace. This topic may not be the work undertaken in the work placement, but may be tangential to that. Students will be formally supervised by an academic staff member from their course of study but will also come under the direction of their employer. Both the academic supervisor and the employer, in consultation, will assess the unit.

Prerequisites: Enrolment in a graduate Information Technology course AND  
Permission of Academic Chair.

Students would normally be in their final year of study and have achieved a GPA of 2.5 (out of 4).  
The structured programme of work should be at a level requiring prior knowledge.

This unit is subject to quota. Students would normally be in their final year of study and achieved a GPA of 2.5 (out of 4)

### **Structured Workplace Learning Placement -- Information Technology (WKP356)**

Credit Points: 12

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal

Students have the option to include an Industry and Professional Experience Program placement within their degree. The placement will be instituted within organisations appropriate to the course of study. Students will be formally supervised by an academic staff member from their course of study but will also come under the direction of their employer. Both the academic supervisor and the employer, in consultation, will assess the unit. The unit includes some workshops to prepare the students for the workplace experience.

Prerequisites: Permission of Academic Chair. Students will have completed Part I studies, and would normally be in their final year of study and achieved a GPA of 2.5 (out of 4).

Disclaimer: Where work placement is a required component of a course, the University will make reasonable endeavours to locate one for enrolled students. However, it cannot guarantee that it will be able to do so for every student. Ultimately, the acceptance of any student for work placement is a decision for the external employer, based on the circumstances prevailing at the time.

### **Structured Workplace Learning Placement -- Information Technology (WKP356-03)**

*As for WKP356 except:*

Credit Points: 3

Not available this year

### **Student Engagement and Community Learning (EDU661)**

Credit Points: 3

MURDOCH: S1-external (closed)

This unit provides opportunities for teachers to engage young people in schooling through a curriculum that connects with their lifeworlds and/or the concerns of the communities in which they live. The unit examines some different ways of generating knowledge with students including place-based education, service learning, citizenship education, local literacies and students as researchers. The unit provides teachers with an opportunity to plan a school-based research project that pursues the idea of 'community as curricula'.

External: No attendance required.

External: No attendance required.

Prerequisites: Enrolment in a graduate-level course or permission of the Unit Coordinator.

### **Supervised Case Study Project (SWM620)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, W-internal

The supervised case study enables students to analyse in depth an issue of policy significance using relevant conceptual tools, professional skills, and theoretical perspectives. The case study (up to 5,000 words) can focus upon either governmental or non-governmental issues at international, national, state or local level. Through undertaking the case study, students develop evaluative, analytical and critical skills. It has two versions:

1. Desk Research Case Study (the standard option)
2. Work Integrated Learning (WIL) Case Study (by special arrangement only)

There are no timetabled learning activities. Students and supervisors collaborate to work out a mutually agreeable meeting structure during semester.

Readings/Self-Directed Study: 5 hours per week; Assessment: 5 hours per week.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of International Affairs, Master of International Affairs and Security, Master of Health Administration, Policy and Leadership or Master of Health Policy and Leadership Affairs; completion of at least 24 credit points.

Exclusions: Students who have successfully completed SSH620 Advanced Policy Case Study cannot enrol in this unit for credit.

### **Supervised Legal Research (LLB381)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal, SUM-internal, U-internal  
GENEVA: S2G-internal  
IMACERATA: S2G-internal

This unit offers students the opportunity to work with a staff member who has agreed to supervise a substantial project of legal research in the staff member's area of expertise. Active participation in the supervision process and production of a substantial piece of legal writing, in the form of a research essay, opinion, brief, or factum is required.

Meetings: up to 10 hours in total.

Prerequisites: Successful completion of all Part 1 units in the LLB, BJU300 Legal Theory and Research, and permission of Supervisor and Academic Chair

Exclusions: Students who have successfully completed LAW381 Supervised Legal Research may not enrol in this unit for credit.

### **Supervised Research Thesis (SWM617)**

Credit Points: 6

MURDOCH: S1-internal, S2-internal

The supervised research thesis requires that students complete a major study on a relevant topic under the supervision of a member of academic staff. Students will develop and demonstrate skills in research design, evaluation, analysis and critique, together with high level written communication skills, organisation and time management, and the capacity for self directed and independent learning.

There are no timetabled learning activities. Students and supervisors collaborate to work out a mutually agreeable meeting structure during semester.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of Health Policy and Leadership or Master of International Affairs; completion of at least 24 credit points (except in cases of Advanced Standing). Students are required to have at least a Distinction grade average in their Masters coursework units, and to have the permission of the School Dean with approval of the proposed thesis topic. Co-requisite: SWM618 Social Science Research Design

### **Supervised Research Thesis (SWM6171)**

Credit Points: 9

MURDOCH: S1-internal, S2-internal

The supervised research thesis requires that students complete a major study on a relevant topic under the supervision of a member of academic staff. Students will develop and demonstrate skills in research design, evaluation, analysis and critique, together with high level written communication skills, organisation and time management, and the capacity for self directed and independent learning.

There are no timetabled learning activities. Students and supervisors collaborate to work out a mutually agreeable meeting structure during semester.

Prerequisites: Enrolment in the Master of Public Policy and Management, Master of Development Studies, Master of Health Policy and Leadership or Master of International Affairs; completion of at least 24 credit points (except in cases of Advanced Standing). Students are required to have at least a Distinction grade average in their Masters coursework units, and to have the permission of the School Dean with approval of the proposed thesis topic. Co-requisite: SWM618 Social Science Research Design.

### **Sustainability Assessment (ENV617)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit explores the theory and practice of planning and decision-making for sustainability in the context of organisations (private, community-based, government) and sectors. Sustainability principles are explored with emphasis on an integrated approach and systems thinking. A range of tools and techniques for sustainability assessment and evaluation of existing or proposed development activities are applied. This unit is suitable for all graduate students with interest or professional need to understand and implement sustainability in their policy, management activities and organisations.

Lecture/workshops: 2x 3 hour workshops.

Prerequisites: Enrolment in Master of Environmental Science or Master of Protected Area Management.

### **Sustainability, Ecology and Communities (SUS203)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops knowledge of the conceptual, practical and policy aspects of sustainable development. The unit focuses on the implementation of sustainability at a local and sub-national level. Systems thinking and resilience are presented as key tools to both understand sustainability problems and develop sustainability solutions within socio-ecological systems. The implementation of sustainability is then explored through governance, business and civil society approaches.

Lectures and tutorials are delivered in 4 day-long sessions held

during the semester. The Unit Coordinator will confirm the exact attendance dates and closer to the commencement date of the teaching period.

Prerequisites: Nil.

Exclusions: Students who have completed STP212 Sustainability, Ecology and Communities or SUS201 Sustainability, Ecology and Communities may not enrol in this unit for credit.

### **Sustainability, Ecology and Communities (SUS512)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit develops knowledge of the conceptual, practical and policy aspects of sustainable development. The unit focuses on the implementation of sustainability at a local and sub-national level. Systems thinking and resilience are presented as key tools to both understand sustainability problems and develop sustainability solutions within socio-ecological systems. The implementation of sustainability is then explored through governance, business and civil society approaches.

Lectures and tutorials are delivered in 4 day-long sessions held during the semester. The Unit Coordinator will confirm the exact attendance dates and closer to the commencement date of the teaching period.

Prerequisites: Enrolment in an Honours or Graduate-level course.

Exclusions: Students who have successfully completed STP612 Sustainability, Ecology and Communities may not enrol in this unit for credit.

### **Sustainable Development Internship Project (SUS331)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit provides an invaluable opportunity to acquire sustainability skills, knowledge and networks. Students are encouraged to work with government agencies, industry or civil society groups on internships or projects relevant to sustainable development, while drawing on the support of academic supervisors. While suggestions for internships and projects are provided, the onus is on students to organise projects that match their interests and prepare them for further study or their chosen careers.

This unit involves internship or project work undertaken with the guidance of an academic supervisor. There are no lectures or tutorials.

Regular meetings with the academic supervisor and other students taking the unit.

Prerequisites: Completion of at least 36 points in the BA in Sustainable Development or BSc in Environmental Management and Sustainability. Students enrolled in other courses may be eligible for enrolment, at the discretion of the unit coordinator.

### **Sustainable Development Internship Project (SUS532)**

Credit Points: 6

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, SUM-internal, SUM-external, U-internal, U-external, Y-internal, Y-external

This unit provides an invaluable opportunity to build sustainability skills, knowledge and networks. Students are encouraged to work with government agencies, industry or civil society groups on projects relevant to sustainable development, while drawing on the



support of academic supervisors. While suggestions for projects are provided, the onus is on students to organise projects that match their interests and prepare them for further study or their chosen careers.

This unit involves internship or project work undertaken with the guidance of an academic supervisor. There are no regular lectures or tutorials.

Prerequisites: Enrolment in an Honours or Graduate-level course.

Exclusions: Students who have successfully completed STP632/STP6321 Sustainable Development Internship/Project may not enrol in this unit for credit.

### **Sustainable Tourism (TOU221)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TMA-internal

Sustainable tourism, which developed from the 1980s concept of sustainable development, incorporates principles which integrate economic imperatives with the maintenance of ecological processes, biological diversity and biophysical resources; equity within and between generations; and the need for compatibility with society, community and cultural values. This unit analyses the management of tourism and hospitality development and its relationship to the conservation of natural, social and cultural resources. Participation in field trips on a cost recovery basis may be required.

Lectures 1.5 hour per week; tutorials 1 hour per week

Occasional field trips

Prerequisites: TOU101 Introduction to Tourism Systems or TOU102 Travel and Tourism in Society or enrolment in graduate studies in Tourism.

Exclusions: Students who have successfully completed TOU201 may not enrol in this unit for credit.

### **Sustainable Urban Communities (SUS310)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

Over half the world's population now live in urban areas and 75 percent could be urban by 2050. This unit examines the sustainability challenges and possibilities that lie ahead as we become an increasingly urban species. The unit explores how we can create urban communities and lifestyles that enhance human dignity and equality, while also being more environmentally sustainable. The unit takes an international perspective, exploring major urban sustainability issues and inspirational practices from Australia, Asia and around the world.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have completed STP220 Cities and Sustainability, SUS300 Cities and Sustainability or SUS300 Sustainable Urban Communities may not enrol in this unit for credit.

### **Sustainable Urban Water Systems (ENG459)**

Credit Points: 3

MURDOCH: S1-internal

Explore factors that contribute to the development of sustainable water systems and services. The 'system' refers to 'the interrelation of personnel, procedures, regulations, hardware and software. A 'water service provider' is an organisation that provides water supply (potable and/or non-potable); sewerage; irrigation; or

drainage services to the public. Consider factors such as governance arrangements, the 'fit-for-purpose' hierarchy to match sources and uses, approaches to system sizing and technology options and focus on a total water balance approach.

Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week.

Water balance modelling computer lab and solar water pumping lab practical.

One 2 hour workshop for 4 weeks commencing in week 2 and concluding in week 13

Two 2-hour field trips.

Prerequisites: ENG300 Environmental Technology for Sustainability and ENG341 Water Conservation and Auditing.

### **Sustainable Urban Water Systems (ENV318)**

Credit Points: 4

Not available this year

The principles, design and operation of urban water supply, rainwater, stormwater, groundwater, wastewater management systems to achieve sustainability using a total water cycle problem-solving approach and computer-aided techniques. Quantitative water balance, nutrient cycles, community education and governance arrangements become part of the integrated approach.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week.

Students will undertake 3 field trips and 1 field laboratory session (solar water pumping practical).

Prerequisites: ENV210 Environmental Technology for Sustainability or by permission of the Unit Coordinator.

### **Systemic Pathology and Medicine (VET377)**

Credit Points: 6

MURDOCH: S2-internal

This unit will use and build on the skills and knowledge gained in previous units to highlight the essential relationship between the pathophysiological consequences and clinical expression of disease. The principles of organ system dysfunction will be emphasised. As part of this unit students will learn about the diagnostic process, techniques for diagnosing disease and interpreting diagnostic results, along with pathological terminology, and the ability to predict, describe and interpret the effects of disease on major organ systems.

Lectures: 6 x 1 hour per week; tutorials 1 x 1 hour per week; workshops: 1 x 2 hours per week

Prerequisites: Enrolment in Veterinary Biology; VET375 Processes in Animal Disease; VET380 Veterinary Nutrition and Animal Toxicology; VET211 Principles of Infectious Disease - Veterinary Microbiology; VET278 Principles of Infectious Disease II- Veterinary Parasitology.

### **Systems Analysis and Design (ICT231)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit introduces methods and techniques for analysing problematic organisational situations, particularly those leading to the development of an information system, and draws on both technical and organisational material to provide the knowledge and skills necessary to design and implement an operational system.

Lectures: 2 hours per week; tutorials: 2 hours per week.

Prerequisites: ICT102 Introduction to Computer Science OR ICT105 Introduction to Information Technology OR ICT108 Introduction to

the Internet and Multimedia OR ICT107 Principles of Information Systems and Data Management.

### Systems Analysis and Design (ICT284)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

This unit introduces methods and techniques for analysing problematic organisational situations, particularly those leading to the development of an information system, and draws on both technical and organisational material to provide the knowledge and skills necessary to design and implement an operational system.

Lectures: 1 x 2 hours per week; tutorials: 1 hour per week.

Prerequisites: ICT102 Introduction to Computer Science OR ICT159 Foundations of Programming OR ICT107 Principles of Information Systems OR ICT158 Introduction to Information Systems or enrolment in a postgraduate IT course.

Exclusions: Students who have successfully completed ICT231 Systems Analysis and Design may not enrol in this unit for credit.

### Systems Biology (BIO378)

Credit Points: 3

MURDOCH: S2-internal

Rapid developments in technology have provided the ability to generate large datasets of complex biological systems. The key to using this information to create a whole-of-organism picture of cellular processes and to answer biologically-relevant questions lies in integrating information from 'omics data-streams. This unit will consolidate knowledge of microbiology, molecular biology, chemistry and biochemistry to examine in detail the tools used to study these systems, including the bioinformatics and functional approaches needed to analyse large data sets.

Lectures 2 hours per week; workshops 2 hours per week.

Prerequisites: BIO270 Biochemistry I or BIO247 Biochemistry or BMS261 Human and Comparative Biochemistry; BIO282 Molecular Biology or BIO316 Molecular Genetics.

### Taxation (BUS303)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

An introductory unit in income tax. It covers key principles in income tax law as they apply to all taxpaying entities. Emphasis will be placed on the distinction between capital and income and the development of concepts of income and deductions in determining a tax quantum. Students are encouraged to develop skills in statutory interpretation and case law analysis that will provide them with a base for lifelong learning in a dynamic tax environment.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS160 or BUS170 Introduction to Accounting and BUS165 or BSL165 Principles of Commercial Law, and completion of at least 24 Points of Part II level units.

Exclusions: Students who have successfully completed BUS313 Taxation may not enrol in this unit for credit.

### Taxation Principles (MBS614)

Credit Points: 3

MURDOCH: S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

The unit considers the principles of Australian income tax law as they apply to all taxpaying entities. The emphasis is on learning general tax rules and how those rules apply to broad categories of business and financial transactions, rather than on the myriad of specific provisions and exemptions. Teaching of this primary tax unit at graduate level is based on the supposition that students will approach tax law as an integrated component of a complex economic and business environment.

2.5 hour seminars per week for South Street  
4 hour workshop sessions for Kaplan SPG

Prerequisites: Enrolment in a graduate-level course;  
MBS502/MBL502 Law for Business.

Exclusions: Students who have successfully completed MBS514 Taxation may not enrol in this unit for credit.

### Teaching Drama (EDN371)

Credit Points: 3

MURDOCH: S1-internal

This unit prepares students for teaching Drama in Years 7-10 in secondary schools, introducing planning, teaching, learning and assessment strategies of drama and the arts. It explores drama as an art form: drama elements, conventions, styles, forms, technologies, skills and processes together with historical, social and cultural contexts. It focuses on understanding drama curriculum and drama teaching in contemporary contexts, integrating theory with practical strategies and approaches for effective drama teaching and learning. Note: taken as first of two units.

Lectures: Workshops/practicals: 1 x 3 hours per teaching week held in Drama Workshop; tutorials/rehearsals: 1 hour per teaching week. Additional rehearsals may be required.

One performance per semester (with associated rehearsals).

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching, EGL121 Turning Points in Literature, and EGL106 Drama, Theatre and Performance.

Exclusions: Completion of EDN412, EDN312; EDN552

Students must complete and submit all assessments to pass this unit.

### Teaching Drama in Secondary Schools (EDN552)

Credit Points: 3

MURDOCH: S1-internal

This unit prepares students for teaching Drama in secondary schools, introducing students to planning, teaching, learning and assessment strategies of drama and the arts. The unit explores drama as an art form: drama elements, conventions, styles, forms, technologies, skills and processes together with its historical, social and cultural contexts. It focuses on understanding drama curriculum and drama teaching in contemporary contexts and integrates theory with practical strategies and approaches for effective drama teaching and learning.

Lecture/seminar: 1 hour per teaching week; workshops/practicals: 1 x 3 hours per teaching week held in Drama Workshop; tutorials: 1 hour per teaching week.

One performance per semester (with associated rehearsals).

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to

Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/EDU1011 Introduction to Teaching; a degree in Drama relevant to high school Drama teaching

Exclusions: Students who have successfully completed EDU204 Drama and the Curriculum (Secondary), EDN312/EDN412 Drama and the Curriculum (Secondary) may not enrol in this unit for credit.

### Teaching English (EDN372)

Credit Points: 3

MURDOCH: S1-internal, S1-external

English is a vehicle to empower, negotiate and inspire. In this unit, the understanding of theoretical concepts and practical skills will be developed to provide a solid foundation from which to effectively plan, teach and assess future students in English (Secondary 7-10). This is aligned with the Australian Curriculum. A wide range of strategies and resources will be critiqued and implemented, in order to carefully scaffold and extend all your future students' skills and knowledge, and provide interesting and meaningful tasks.

Lectures: 1 hour per week. Workshops (internal students): 1 hour per week.

External students: 2 hours per week of online tasks.

Lectures: 1 hour per week. Workshops (internal students): 1 hour per week.

External students: 2 hours per week of online tasks.

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

### Teaching English and Literacy in Early Childhood and Primary (EDN235)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit is typically completed in the second year of a Bachelor of Education Primary course. It aims to prepare students to plan, teach and assess English in primary classrooms. A balanced perspective and familiarity of the content, structure and role of the Australian Curriculum and language modes is presented including the general capabilities and cross-curricular priorities. The trans-disciplinary nature of teaching and learning language, literacy and literature will be explored

Lectures; 1 hour per week; workshops: 2 hours per week; topic based voc casts.

Prerequisites: Successful completion of BED100 Ideas in Education, and BED150/EDN112/EDN1121 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching; OR enrolment in GradDip Primary or Primary (BEd) Graduate, and successful completion of BED150/EDN112/EDN1121 Understanding Teachers' Work.

Exclusions: Students cannot undertake this unit for credit if they have successfully completed EDN223/EDN2231 Teaching English and Literacy in Primary Schools or EDU282/EDU2821 Primary Curriculum I (English).

### Teaching English and Literacy to Students with Learning Difficulties and Disabilities (EDN328)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit examines issues related to students with learning difficulties and disabilities and the impact it has on the development of English and Literacy skills. The focus will be on early intervention and ongoing support for children who have not made expected progress. Students will explore and evaluate a range of evidence-based instruction, assessment and intervention

approaches in relation to literacy, in order to promote an effective educational experience for students with a range of learning difficulties and disabilities.

Lectures: 1 hour per week; workshops: 2 hours per week.

Prerequisites: Nil.

### Teaching English in Secondary Schools (EDN553)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit helps future teachers of Secondary English develop an understanding of the theoretical concepts and practical skills needed to plan, teach and assess students. English is a vehicle to empower, negotiate, inspire and encourage critical thinking, through engaging with literature in many forms. It draws on the Australian Curriculum and other relevant documents to identify a wide range of strategies and resources for teaching, and participants will learn how to extend students' skills and knowledge by scaffolding interesting and meaningful tasks.

Lectures/seminars: 1 hour per week

Workshops (internal students): 3 hours per week.

External students: 3 hours per week of online tasks.

Lectures/seminars: 1 hour per week

Workshops (internal students): 3 hours per week.

External students: 3 hours per week of online tasks.

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/EDU1011 Introduction to Teaching; a degree in an English discipline relevant to high school English teaching.

Exclusions: Students who have successfully completed EDN413 English and the Curriculum may not enrol in this unit for credit.

### Teaching Health (EDN378)

Credit Points: 3

MURDOCH: S1-internal

This unit prepares students for teaching Health and Physical Education (HPE) in secondary schools years 7-10. The unit emphasises the planning, development and implementation of effective teaching and learning processes as described in the WA HPE Curriculum. This unit will explore the means to develop health related knowledge, understanding and skills and how these are applied in community settings.

Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week in the 10 teaching weeks of Semester 1. Details will be advised in the Unit Information and Learning Guide available on LMS website. All students will need to engage with LMS, to access resources and the latest information regarding this unit.

Students will be expected to apply their knowledge skills and understandings developed in this unit in their EDN410 Professional Experience placement.

Prerequisites: Enrolment in the Secondary Teaching (Science Combined Sport and Health Science) (BEd+BSc), and successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

Exclusions: Students who have successfully completed EDN419 Health and Physical Education and the Curriculum (Major) may not enrol in this unit for credit.

Students will co- enrol in EDN410 Professional Experience placement.

### Teaching Health and Physical Education in Early Childhood and Primary (EDN248)

Credit Points: 3

MURDOCH: S2-internal, S2-external

You will be introduced to the WA HPE curriculum and the Early Years Learning Framework. The unit provides embodied learning experiences including the cognitive, kinaesthetic and affective dimensions of learning. You will explore: the rationale for HPE in early learning environments and schools; health issues and the promotion of health and well-being; integration of HPE in the curriculum and the skills needed for participation in physical activities.

On-campus students: Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week in the 10 teaching weeks of Semester 2 as identified in the Unit Guide.

Off-campus students: Lectures: 1 x 1 hour per week. In addition off-campus students are required to participate in on-line activities through LMS and attend an on-campus intensive teaching week in commencing Monday 3 October to Friday 7 October 2017 (inclusive. Dates are subject to confirmation; any change to information on dates will be posted on School of Education website and in the Unit Guide). Off-campus students are also required to complete a self-devised study program equivalent or similar to the workshops undertaken by on-campus internal students during the semester. Details will be advised in the Unit Information and Learning Guide available on LMS website. All students will need to engage with LMS, to access resources and the latest information regarding this unit.

Prerequisites: Enrolment in BEd (Primary), BEd (Early Childhood and Primary), BED Early Childhood 0-8, BEd (Primary, Years 1 to 10 Health and Physical Education), BEd/BA (Australian Indigenous Studies), or BEd (Primary) (Graduate). Successful completion of BED100 Ideas in Education and EDN111 Language for Learning and Teaching and BED150/EDN112/EDN1121 Understanding Teachers' Work.

Exclusions: Students who have successfully completed EDU207 or EDN226 Primary Curriculum IIA (Arts, Health, Physical Education, and Technology and Enterprise), EDU217 Primary Curriculum IIB or EDN227 (Arts, Health and Physical Education) may not enrol in this unit for credit.

EDN248 External students are required to attend for one week, on campus, intensive learning. This unit is studied with EDN236 Teaching the Arts in Early Childhood and Primary Schools. Either or both of EDN236 and EDN248 are studied with EDN2104 Professional Experience: BEd Primary.

### Teaching Humanities and Social Sciences (EDN377)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit encourages students to develop a practical and critical understanding of the principles and practices of teaching and learning in the Humanities and Social Sciences (HASS) curricula for Years 7 - 10 in Western Australian secondary schools. Particular attention is given to the construction of HASS curricula within the context of the Australian Curriculum. The unit explores the various ways in which student learning outcomes may be developed, monitored and assessed.

Workshops/tutorials: 2 hours per week

1 hour lecture per week will be delivered via LMS

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

EDN377: completion or near completion, of sufficient units in the Social Sciences or its equivalent and enrolment in EDN3101 School

Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary).

### Teaching Humanities and Social Sciences in Early Childhood and Primary (EDN441)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to prepare students to teach the 'Humanities and Social Sciences' component of the Curriculum, with particular application to the early childhood and primary learning environments. The unit promotes the use of an investigative approach to learning. The aim is to promote the knowledge, skills, attitudes and values that enable learners to participate as active and informed citizens in a democratic society.

Lectures: 1 x 1 hour per week; workshops: 1 x 2 hours per week.

Prerequisites: Successful completion of BED100 Ideas in Education, and BED150/EDN112/EDN1121 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching.

Exclusions: Students who have successfully completed EDU286 or EDU2861 may not enrol in this unit for credit.

### Teaching Humanities and Social Sciences in Secondary Schools (EDN558)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit encourages students to develop a practical and critical understanding of the principles and practices of teaching and learning in the Humanities and Social Sciences (HASS) curricula (Years 7-12) in Western Australian secondary schools. Particular attention is given to the construction of HASS curricula within the context of the Australian Curriculum. The unit explores the various ways in which student learning outcomes may be developed, monitored and assessed.

Workshops/tutorials: 2 hours per week

1 hour lecture per week will be delivered via LMS

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/EDU1011 Introduction to Teaching; a degree in a discipline relevant to teaching the humanities and social sciences in high school.

Exclusions: Students who have successfully completed EDN418 Society and Environment Curriculum (Secondary) may not enrol in this unit for credit.

### Teaching Mathematics (EDN373)

Credit Points: 3

MURDOCH: S1-external

This unit aims to assist the student teacher to develop competency with the planning and implementation skills associated with the teaching of a program of secondary mathematics. It is directed towards the development of the mathematical skills and problem-solving abilities of adolescents. This unit is about teaching mathematics; the main focus is on the pedagogical content knowledge rather than the mathematics content knowledge per se.

Workshops: 25 hours

Accessing online learning resources recommended through the LMS.

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

Exclusions: Students who have successfully completed EDN314 Mathematics and the Curriculum (Secondary) (Minor) may not enrol in this unit for credit.

Curriculum teaching minor in Mathematics requires a minimum of two units (6 points) at Part I-level and at least one unit (3 points) at Part II-level from the Mathematics and Statistics major.

### **Teaching Mathematics and Numeracy to Students with Learning Difficulties (EDN329)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will consider the learning, teaching and assessment strategies of P-6 mathematics with particular emphasis on identifying and catering for the needs of students with learning difficulties and mild disabilities. Students critically examine key issues, research and approaches in mathematics and numeracy instruction for students with learning difficulties. Students are provided with information and experiences which assists them to utilise appropriate diagnostic tools, interpret student responses and develop programs based on their findings.

Lectures: 1 hour per week; workshops: 2 hours per week

Prerequisites: Successful completion of EDN351 Teaching Mathematics in Early Childhood and Primary

### **Teaching Mathematics in Early Childhood and Primary (EDN351)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to assist students in acquiring knowledge and skills which will facilitate early childhood and primary school children's active learning of mathematics. It focuses on understanding and knowing the mathematics that children need to learn, how children learn that mathematics and how best to teach it. The content will address the key elements of the early childhood and primary school Mathematics curriculum: number and algebra; measurement and geometry; statistics and probability.

Lectures: 1 hour per week; workshops: 2 hours per week.

Your first assignment requires you to work with an individual child from year one to six. You will need to seek out a child with whom you can work over a period of time and as such you will need parent consent. A completed parent consent form (located at the end of the Unit Information document) will need to be submitted with your assignment. You may use your own or a friend or a relative's child.

Prerequisites: Successful completion of BED100 Ideas in Education; BED150/EDN112/EDN1121 Understanding Teachers' Work; EDN111 Language for Learning and Teaching; EDN114 Thinking Mathematically and EDN2104 Professional Experience: English in Practice.

Exclusions: Students cannot undertake this unit for credit if they have successfully completed EDN333/EDN333/1 Teaching Mathematics in Primary Schools or EDU285/EDU2851 Primary Curriculum III (Mathematics).

### **Teaching Mathematics in Secondary Schools (EDN554)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit prepares students for teaching Mathematics in secondary schools by assisting the student teacher to develop competency with the planning and implementation skills associated with the teaching of a program of secondary mathematics. It is directed

towards the development of the mathematical skills and problem-solving abilities of adolescents. The unit emphasises the development of effective teaching for outcomes as described in the Australian Curriculum: Mathematics and in the School Curriculum Standards Authority (SCSA) Senior Secondary Courses in Mathematics

Workshops/seminars: 2 x 1.5 hours per week.

Accessing online learning resources recommended through the LMS

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to Teaching or BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/EDU1011 Introduction to Teaching; a degree in an mathematics discipline relevant to high school mathematics teaching.

Exclusions: Students who have successfully completed EDN414 Mathematics and the Curriculum (Secondary) may not enrol in this unit for credit.

### **Teaching Physical Education (EDN374)**

Credit Points: 3

MURDOCH: S1-internal

This unit prepares you for teaching Health and Physical Education (HPE) in secondary schools years 7-10. It will focus on the planning, development and implementation of effective teaching and learning processes as described in the WA HPE Curriculum. You will study the progression and development of the disciplinary knowledge and develop an understanding of knowledge and skills underpinning Physical Education programs and how these are applied in movement contexts.

Prerequisites: Enrolment in Secondary Teaching (Science Combined Sport and Health Science) (BEd, BSc). Successful completion of BED150 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching, and EDN116 Physical Education and EDN356 Sport Education

Exclusions: Students who have successfully completed EDN419 Health and Physical Education and the Curriculum (Major) may not enrol in this unit for credit.

Students enrolled in Graduate Diploma Secondary may not enrol in this unit.

### **Teaching Religion in Schools (THE511)**

Credit Points: 3

Not available this year

This unit investigates the place of religion and religious education in schools; be that interest theological, philosophical, pedagogical, historical, or in terms of public policy and praxis. An understanding of the place of the teaching of religion in schools is enhanced by a placement of ten hours in a School. It is of interest to students in programs of chaplaincy, theology, clergy formation, teacher education, and amongst those who value or question the place of religion and religious education in our society.

Workshop: 3 days intensive

Students are required to arrange and undertake a ten hour placement at a school and write a critique of the place of religious education in that school.

Prerequisites: Enrolment in graduate level study.

**Teaching Science (EDN376)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit offers opportunities for developing knowledge and understanding of curriculum and pedagogy in the lower secondary science teaching area. Students engage with national and international science curriculum perspectives. The unit focuses on the structure and content of the curriculum, teaching strategies, curriculum planning, curriculum integration, differentiation and assessment. Through critical analysis and evaluation of curriculum documents, hands-on activities, the creation of learning resources, programming, lesson planning and micro-teaching students gain knowledge, practical skills and expertise.

Internal students: 2 x 2 hour workshops each teaching week.

External students: 5 x 2 hour online sessions.

Online tasks.

One workshop will be an excursion.

Internal students: 2 x 2 hour workshops each teaching week.

External students: 5 x 2 hour online sessions.

Online tasks.

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

Curriculum Teaching Area 2 in Science requires a minimum of two units (six points) at Part I-Level and at least two units (3 points) at Part II-Level from the Science Major.

**Teaching Science in Early Childhood and Primary (EDN442)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on science knowledge and teaching skills that are needed to facilitate the development of early childhood and primary school students' science literacy. Students will explore inquiry learning, alternative conceptions, engagement in science and other topics in science education associated with developing science literacy in the early childhood and primary setting.

Lectures 1 hour per week, Laboratories: 1 x 2 hours per week.

Prerequisites: Successful completion of BED100 Ideas in Education, and BED150/EDN112/EDN1121 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching.

Exclusions: Students who have successfully completed EDU286 or EDU2861 may not enrol in this unit for credit.

**Teaching Science in Secondary Schools (EDN557)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit offers opportunities for developing knowledge and understanding of curriculum and pedagogy in the secondary science curriculum. Students engage with national and international science curriculum perspectives. The unit focuses on the structure and content of the lower and upper secondary science curriculum, teaching strategies, curriculum planning, creation of learning resources and assessment. Through critical analysis and evaluation of curriculum documents, hands-on activities, programming, lesson planning and micro-teaching students gain knowledge, practical skills and expertise.

Internal students: 2 x 2 hour workshops each teaching week.

External students: 5 x 2 hour online sessions.

Online tasks.

One workshop will be an excursion.

Internal students: 2 x 2 hour workshops each teaching week.

External students: 5 x 2 hour online sessions.

Online tasks.

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary); successful completion of EDN550 Transition to Teaching OR BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/EDU1011 Introduction to Teaching; a degree in a discipline relevant to high school science teaching.

Exclusions: Students who have successfully completed EDN417 Science and the Curriculum (Secondary) may not enrol in this unit for credit.

Curriculum Teaching Area 2 in Science requires a minimum of two units (six points) at Part I-Level and at least two units (3 points) at Part II-Level from the Science Major.

**Teaching Second/Foreign Languages (EDN375)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The aim of this unit is to provide intending teachers of a second or foreign language with necessary skills in the areas of curriculum design and implementation. The unit comprises the general study of language and the curriculum, together with providing some opportunity for working with specific language curricula. It examines language teaching practice, and gives students the opportunity to explore a variety of classroom techniques and approaches.

2 x 2 hour lecture/workshops per week (over 10 weeks)

Prerequisites: Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching OR enrolment in B1319 Bachelor of Education Primary and successful completion of BED150 Understanding Teachers' Work.

Exclusions: Prior completion of EDN416 Second/Foreign Languages and the Curriculum (Major), EDN316 Second/Foreign Languages and the Curriculum (Minor), EDN3162 Second/Foreign Languages and the Curriculum, or EDN516 Teaching Second/Foreign Languages

**Teaching Second/Foreign Languages (EDN556)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

DUBAI-ISC: TSD-internal

The aim of this unit is to provide intending teachers of a second or foreign language with necessary skills in the areas of curriculum design and implementation. The unit comprises the general study of language and the curriculum, together with providing some opportunity for working with specific language curricula. It examines language teaching practice, and gives students the opportunity to explore a variety of classroom techniques and approaches.

Lectures/seminars: 2 x 2 hours per week.

Prerequisites: Enrolment in the Master of Education OR Master of Asian Studies OR Graduate Diploma in Education (Secondary) OR Master of Teaching (Primary) OR Graduate Diploma in Education (Tertiary and Workplace). For students in the Graduate Diploma of Education (Secondary) successful completion of EDN550 AND a high level of proficiency in a second or foreign language. Proficiency may need to be confirmed by the Unit Coordinator.

Exclusions: Students who have successfully completed EDN516 Second/Foreign Languages and the Curriculum may not enrol in this unit for credit.

**Teaching Secondary Mathematics (7-10) (EDN542)**

Credit Points: 3

MURDOCH: S2-external

This unit aims to support the student to transit into teaching secondary mathematics. It will focus on developing competence with the planning and implementation skills associated with the teaching of a program of secondary mathematics, directed towards the development of the mathematical skills and problem-solving abilities of adolescents. This unit is about teaching mathematics; the main focus is on the pedagogical content knowledge rather than the mathematics content knowledge per se.

Accessing online learning resources recommended through the LMS.

Prerequisites: Enrolment in the Graduate Certificate in Education (Secondary Mathematics 7 - 10), and successful completion of either MAS540 Mathematics for Teaching Secondary (7-10) or MAS541 Statistics for Teaching Secondary (7-10).

Exclusions: Students who have successfully completed EDN314 Mathematics and the Curriculum (Secondary) (Minor) or the Graduate Certificate in Mathematics Teaching may not enrol in this unit for credit.

**Teaching Secondary Science (7-10) (EDN549)**

Credit Points: 3

MURDOCH: S2-external

This unit offers opportunities for developing knowledge and understanding of curriculum and pedagogy in the lower secondary science teaching area. Students engage with national and international science curriculum perspectives. The unit focuses on the structure and content of the curriculum, teaching strategies, curriculum planning, curriculum integration, differentiation and assessment. Through critical analysis and evaluation of curriculum documents, hands-on activities, the creation of learning resources, programming, lesson planning and micro-teaching students gain knowledge, practical skills and expertise.

Prerequisites: Enrolment in the Graduate Certificate in Education (Secondary Science 7-10), successful completion of CHE540 Chemistry for Teaching Secondary (7-10) or PEN540 Physics for Teaching Secondary (7-10)

**Teaching Senior Secondary Drama (EDN471)**

Credit Points: 3

Not available this year

This unit prepares students for teaching Drama in Years 11 and 12 in secondary schools, introducing students to planning, teaching, learning and assessment strategies of drama and the arts. The unit explores drama as an art form: drama elements, conventions, styles, forms, technologies, skills and processes together with its historical, social and cultural contexts. It focuses on understanding drama curriculum and drama teaching in contemporary contexts and integrates theory with practical strategies and approaches for effective drama teaching and learning.

Lectures: 1 hour per teaching week; workshops/practicals: 1 x 3 hours per teaching week held in Drama Workshop; tutorials: 1 hour per teaching week.

One performance per semester (with associated rehearsals).

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary, and EDN371 Teaching Drama

Exclusions: Completion of EDN412, EDN312; EDN552

**Teaching Senior Secondary English (EDN472)**

Credit Points: 3

Not available this year

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary and EDN372 Teaching English.

**Teaching Senior Secondary Health (EDN478)**

Credit Points: 3

Not available this year

This unit will prepare students for teaching HPE in the senior school. It will focus on various forms of the Health Studies curriculum currently taught in WA schools and will develop an understanding of school based assessment and moderation as required by School Curriculum and Standards Authority. It will explore the knowledge, understanding and skills necessary to promote an understanding of the importance of personal and community action in promoting health.

Prerequisites: Enrolment in the Secondary Teaching (Science Combined Sport and Health Science) (BEd+BSc), and successful completion of EDN410 Professional Experience BEd Secondary, and EDN373 Teaching Mathematics

Exclusions: Students who have successfully completed EDN419 Health and Physical Education and the Curriculum (Major) may not enrol in this unit for credit.

**Teaching Senior Secondary Humanities and Social Sciences (EDN477)**

Credit Points: 3

Not available this year

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary and EDN377 Teaching Humanities and Social Sciences.

**Teaching Senior Secondary Mathematics (EDN473)**

Credit Points: 3

Not available this year

This unit aims to assist the student teacher to develop competency with the planning and implementation skills associated with the teaching of a program of secondary mathematics. It is directed towards the development of the mathematical skills and problem-solving abilities of adolescents. This unit is about teaching mathematics; the main focus is on the pedagogical content knowledge rather than the mathematics content knowledge per se.

Lectures/workshops: 30 hours.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary, and EDN373 Teaching Mathematics

Exclusions: Students who have successfully completed EDN414 Mathematics and the Curriculum (Secondary) (Major) may not enrol in this unit for credit.

Completion or near completion of a major in Mathematics. Students must have completed or currently be enrolled in EDN4101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary). Students should be enrolled in BEd(Secondary)/BSc (Mathematics and Statistics) OR BEd (Secondary) (Graduate with Mathematics degree) and enrolled in EDU3161 School Experience: Secondary BEd for students taking this unit (EDN473) as a curriculum major.

OR

Enrolment in EDN3101 School Experience: Secondary BEd for students enrolled in the Bachelor of Education (Secondary) and taking EDN373 as a curriculum minor.

OR

Enrolment in EDU293 and EDU297 for students enrolled in the Graduate Diploma in Education (Secondary) and taking EDN473 as a curriculum major.

### Teaching Senior Secondary Physical Education (EDN474)

Credit Points: 3

Not available this year

Prerequisites: Enrolment in the Secondary Teaching (Science Combined Sport and Health Science) (BEd+BSc), and successful completion of EDN410 Professional Experience BEd Secondary and EDN374 Teaching Physical Education.

Exclusions: Students who have successfully completed EDN419 Health and Physical Education and the Curriculum (Major) may not enrol in this unit for credit.

### Teaching Senior Secondary Science (EDN476)

Credit Points: 3

Not available this year

This unit offers opportunities for developing knowledge and understanding of curriculum and pedagogy in the upper secondary Science courses. Students engage with national and international science curriculum perspectives. The unit focuses on the structure and content of the upper secondary science curriculum, teaching strategies, curriculum planning, creation of learning resources and assessment. Through critical analysis and evaluation of curriculum documents, hands-on activities, programming, lesson planning and micro-teaching students gain knowledge, practical skills and expertise.

Internal students

2 x 2 hour workshops each teaching week

External students

5 x 2 hour on line sessions

On line tasks.

Internal students

2 x 2 hour workshops each teaching week

External students

5 x 2 hour on line sessions

On line tasks.

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary, and EDN376 Teaching Science

Curriculum Teaching Area 2 in Science requires a minimum of two units (six points) at Part I-Level and at least two units (6 points) at Part II-Level from the Science Major.

### Teaching Senior Secondary Second/Foreign Languages (EDN475)

Credit Points: 3

Not available this year

Prerequisites: Successful completion of EDN410 Professional Experience BEd Secondary and EDN375 Teaching Second/Foreign Languages.

### Teaching Students with High Incidence Disabilities (EDN330)

Credit Points: 3

MURDOCH: SUM-internal, SUM-external

The focus of this unit is on children with high-incidence disabilities. The unit presents students with an overview of the nature and characteristics of children with mild disabilities, including children with autism (ASD), mild intellectual disabilities, learning disabilities, attention-deficit-hyperactivity disorders (ADHD), and children with emotional or behavioural disorders. This unit will also aim to provide students with knowledge of key issues, evidence-based practices and teaching strategies addressing the needs of children with high incidence disabilities in education settings.

Lectures: 1 hour per week; workshops: 2 hours per week. (If run over Summer, Intensive workshops of 4 hours per day for 1 week)

Prerequisites: Nil.

### Teaching The Arts in Early Childhood and Primary (EDN236)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit prepares students for teaching and learning the Arts in Early Childhood Education and primary schools. Teaching and learning in Dance, Drama, Media Arts, Music and Visual Arts; integrating the Arts in the curriculum; how the arts shape, express and communicate experience; learning the arts as ways of knowing and making meaning and what it means to be human; developing arts literacy and capacity to engage with, reflect on and make informed judgements about the arts.

On campus students: Lectures/workshops:4 hours per week in the teaching weeks of Semester 2 as identified in the Unit Guide. External students complete this unit via online learning, Weeks 1-10 and 13, 14, and in addition are required to attend an on-campus intensive teaching week in Week 10 of Semester 2 (Dates subject to confirmation; information on dates posted on the School of Education website.) During the semester, external students are required to complete a study program equivalent to the workshops undertaken by internal students.

On campus students: Lectures/workshops:4 hours per week in the teaching weeks of Semester 2 as identified in the Unit Guide. External students complete this unit via online learning, Weeks 1-10 and 13, 14, and in addition are required to attend an on-campus intensive teaching week in Week 10 of Semester 2 (Dates subject to confirmation; information on dates posted on the School of Education website.) During the semester, external students are required to complete a study program equivalent to the workshops undertaken by internal students.

Prerequisites: Successful completion of EDN111 Language for Learning and Teaching or BED150/ EDN112 Understanding Teachers' Work or EDU101/EDU1011 Introduction to Teaching or enrolment in a graduate-entry Bachelor of Education (Primary). Co-requisite (for all students): Digital completion of assignments as stipulated in the Unit Information and Learning Guide.

Exclusions: Students who have successfully completed EDU207 Primary Curriculum IIA (Arts, Health, Physical Education, and Technology and Enterprise), EDU217 Primary Curriculum IIB (Arts, Health and Physical Education), EDN225, EDN2251 OR EDN227 may not enrol in this unit for credit.

This unit is studied with EDN248 Teaching Health and Physical Education in Early Childhood and Primary. It is highly recommended that EDN236 and EDN248 be studied in the same semester as EDN2104 Professional Experience: BEd Primary.



## Teaching, Learning and Working in Culturally Diverse Environments (EDU616)

Credit Points: 3

MURDOCH: S1-external  
DUBAI-ISC: TJD-internal

This unit examines challenges and potential of cultural diversity in teaching and learning from school to university, including international, transnational education, study of languages, vocational and professional workplace learning. A multidisciplinary approach is adopted with concepts drawn from social, cross-cultural and cultural psychology; sociology; cultural studies; intercultural relations and communication; and intercultural learning. Participants gain solid, research-based understanding of key culture-related concepts and ideas, and will be well prepared to promote productive cultural diversity and positive intercultural transformation.

Seminars: 1 x 3 hours per week

Students will complete research assignments independently, in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level qualification or permission of the Unit Coordinator.

Exclusions: Students who have successfully completed EDU646 Cultural Diversity in Learning and Working may not enroll in this unit for credit.

### Technique I (CHI338)

Credit Points: 3

MURDOCH: S2-internal

This Unit concentrates on the common presentations and orthopaedic examination and diagnosis of orthopaedic disorders of the appendicular skeleton and the therapeutic interventions for these disorders.

Lectures: 3 hours per week; Laboratory: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2, CHI354 Chiropractic Skills.

### Technique II (CHI339)

Credit Points: 3

MURDOCH: S2-internal

This unit integrates the students' chiropractic technique, soft tissue treatments, and rehabilitation skills for various musculoskeletal conditions. Various chiropractic technique alternatives will be introduced in an evidence-based context. Students will further develop their foundation in manual skills and soft tissue treatments leading to better proficiency and competency. Students will develop an understanding of patient and case management for typical disorders seen in practice. The practical component focuses on manual therapies for geriatrics, paediatrics and the disabled.

Lectures: 3 hours per week; Laboratory: 3 hours per week.

Prerequisites: Enrolment in Chiropractic Science + Clinical Chiropractic (BSc + BClinChiro) and successful completion of Years 1 and 2, CHI354 Chiropractic Skills.

### Technology and Accounting Processes (BUS285)

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit provides the fundamental concepts and technical skills that students need for future units in accounting. By the end of the unit,

students will be able to record accounting transactions and produce relevant financial statements in accordance with Australian Accounting Standards. Topics include the double entry recording system, financial statements, valuation and measurement of assets, liability and equity. Students will also utilise QuickBooks software to facilitate their understanding of the computerised accounting process.

Workshops: 2 hours per teaching week for South Street campus  
Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS170 Foundations of Accounting or BUS160 Introduction to Accounting.

Exclusions: Students who have successfully completed C168 Principles of Accounting, C255 Financial Accounting 1 and/or BUS217 Technology and Accounting Processes may not enrol in this unit for credit.

### Telling True Stories (EGL233)

Credit Points: 3

MURDOCH: S1-internal

This unit introduces students to the genre of literary journalism, which combines creative writing techniques with journalism skills. Students read a selection of texts that have informed the field. The unit assists students to develop the skills necessary to produce a work of literary journalism. Students will work through the various stages, practising creative writing techniques, conducting interviews and research, conducting fieldwork, drafting, editing, fact checking, as well as debating ethics in order to understand the field and produce their own article.

Seminars/workshops: 1 x 1.5 hours.

Student must complete an onsite observation (fieldwork) and an interview.

Prerequisites: Nil.

Exclusions: Students who have successfully completed EGL234 Telling True Stories cannot enrol in this unit for credit.

### Terrorism and Political Violence in South Asia (POL237)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Aims to develop a critical understanding of the nature of political and security challenges confronting the South Asian region and how these challenges impact upon global security; the relationship between politics, security and terrorism in South Asia; the appropriate counter-terrorism measures that have been taken by affected states; and the 'out-of-the-box' solutions to security problems confronting South Asia. While a regional perspective will be adopted, the unit will place particular emphasis on India, Pakistan, and Afghanistan.

Lectures: 1 x 90 minutes per week; tutorials, 1 x 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have completed POL218 Politics and Security in South Asia may not enrol in this unit for credit.

### Terrorism in a Globalised World (POL234)

Credit Points: 3

MURDOCH: S1-internal, S1-external

Since the terrorist attacks of 11 September 2001 the spectre of terrorism and resultant 'War on Terror' have come to dominate and in many respects reshape national and international politics. The aim of this unit is to provide a critical understanding of terrorism

and counter-terrorism politics and policy within the context of a globalised world. Drawing upon both contemporary and historical case studies, the unit considers the complex interrelationships between forces of globalisation, political interest, ideology and violence.

Lectures/workshops: 2.5 hours

Prerequisites: Nil.

Exclusions: Students who have completed POL293 Terrorism in a Globalised World may not enrol in this unit for credit.

### **Tertiary and Adult Education Policy (EDN544)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines policy issues related to tertiary and adult education at both the micro and macro levels. We will look at issues of tertiary and adult education as they relate to individuals, universities and other adult and tertiary education settings, the larger national society, and the global context. This unit is inter-disciplinary, using philosophical, psychological, economic, political and sociological perspectives to critically examine tertiary and adult education.

Seminars: 2 hours per week.

Prerequisites: Enrolment in a Graduate qualification or permission of the Unit Coordinator.

Exclusions: Students who have successfully completed E407 Perspectives and Issues in Adult Education may not enrol in this unit for credit.

### **The Empire Strikes Back: Imperialism and Colonialism in Modern History (HIS200)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will extend and apply learning gained through the completion of the first-year History units. Although the geographical and thematic focus of the unit may vary from year to year, students will consider:

- \* Different conceptual approaches to interpreting the past
- \* How the past contributes to shaping the present
- \* Interpretation of primary and secondary sources
- \* Methodological and ethical conventions of historians.

Lectures: 1 hour per week; tutorials: 1 hour per week.

Prerequisites: HIS181 Introduction to History and HIS182 Turning Points in History (or HIS182 Making of the Modern World).

Exclusions: Students who have successfully completed HIS285 Approaches to History cannot enrol for credit in this unit.

### **The Healthy Human Body 1 (NUR111)**

Credit Points: 3

MURDOCH: S1N-internal  
MANDURAH: S1N-internal

The Healthy Human Body is a complex adaptive system. This unit provides a broad, general introduction to fundamental concepts related to its structure and function, whilst also exploring issues of relevance to nursing. It will introduce students to the various levels of structural organisation in the body, from atoms and molecules to cells, tissues, organs and organ systems. Participation in laboratory activities will assist students in developing competence in the application of this knowledge to human health and illness.

Lecture: 1 hour per week; Tutorials: 2 hours per week.

Lectures delivered face-to-face in alternate weeks across both Perth

and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Enrolment in Bachelor of Nursing

Exclusions: Students who have successfully completed NUR149 Human Structure and Function 1 may not enrol in this unit for credit.

### **The Healthy Human Body 2 (NUR121)**

Credit Points: 3

MURDOCH: S2N-internal  
MANDURAH: S2N-internal

This unit builds on previous unit content and continues to examine the maintenance of essential life processes by highlighting the inter-relationship of body organ systems and homeostasis. This unit will contribute to the foundation of knowledge required for the principles and practice of nursing. Participation in laboratory activities will assist students in developing competence in the application of this knowledge to their nursing practice.

Lecture: 1 hour per week; Tutorials: 2 hours per week.

Lectures delivered face-to-face in alternate weeks across both Perth and Mandurah Campuses and recorded during the delivery and available via ECHO through the web unit on the learning management system (LMS).

Optional Peer Assisted Study Session (PASS): 1 hour per week.

Prerequisites: Enrolment in Bachelor of Nursing. Completion of NUR111 The Healthy Human Body 1 or NUR149 Human Structure and Function 1.

Exclusions: Students who have successfully completed NUR154 Human Structure and Function 2 may not enrol in this unit for credit.

### **The Law of Costs (LLB210)**

Credit Points: 3

MURDOCH: SUM-internal, U-internal

The unit will introduce students to the law of legal costs as practised in the Western Australian jurisdiction and the Commonwealth Courts. It will cover costs orders, billing practices, costs agreements and the costs assessment process. There will also be some comparative analysis with costs regimes in other jurisdictions.

24 hours over the five days, 9am to 3pm, for the first four days (with a one-hour lunch break each day) i.e. 4 days x 5 hours = 20 hours, plus 4 hours on the last day.

Prerequisites: Enrolment in Bachelor of Laws (LLB) or Juris Doctor.

Exclusions: Students who have completed LEG211 Legal Costs Assessment may not enrol in this unit for credit.

### **The Vietnam Wars (HIS305)**

Credit Points: 3

Not available this year

Studies the wars in Vietnam and Indochina, from 1946 to 1975, and examines the local roots of antagonism as well as international pressures that exacerbated and expanded the conflicts. Topics include state and society in pre-war Vietnam, including 19th century Vietnamese politics, the impact of French conquest including social and intellectual change under colonialism, the rise of communism, the ambiguous statehood of South Vietnam, US intervention and the cold war in Asia, and the spread of war to neighbouring countries.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

### **Theriogenology (VET637)**

Credit Points: 3

MURDOCH: Y-internal

The reproduction section of this unit covers normal and abnormal reproductive physiology, endocrinology and anatomy in common domestic animals, and applies that information and understanding to veterinary situations. Lectures and practicals are conducted on examination of male and female animals, evaluation of fertility, control of reproduction, and diagnosis and treatment of reproductive diseases in domestic animals. Obstetrics lectures and practicals cover the processes of parturition in domestic species, with particular emphasis on diagnosis and correction of abnormalities of parturition.

Lectures 32, timetabled for one per day during T1

Practicals: every student will do one practical on examination of the cow, mare, stallion, bull, ram, dog, plus laboratory classes on examination of reproductive tract and artificial insemination and classes on obstetrical assessment and techniques. These classes will be conducted in groups of 10-30, they will be timetabled generally for afternoons, running for 3 hours per class.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### **Thermodynamics for Physics and Nanotechnology (PEN202)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit looks at thermal energy transfer from both macroscopic and microscopic perspectives based on the fundamental principles and laws of thermodynamics and statistical mechanics including quantum statistical physics. These laws are used to analyse the performance and efficiency of various thermodynamic processes including engines. The Curzon-Ahlborn, Stefan-Boltzmann and Muser engines, used for solar energy conversion, are based on endoreversible process. Another important aspect is nanothermodynamics, the thermodynamics of phenomena and processes at the nanometre scale.

Lectures: 1 x 2 hours per week; tutorials: 1 x 1 hour per week; workshops/computer-based lab: 1 x 1 hour per week.

Prerequisites: PEN152/PEC152 Principles of Physics and MAS161 Calculus and Matrix Algebra or MAS182 Applied Mathematics.

Exclusions: Students who have successfully completed PEC302 Thermodynamics for Physics and Nanotechnology may not enrol in this unit for credit.

### **Thinking and Reasoning Economically (SWM629)**

Credit Points: 3

MURDOCH: S1-internal

We show how basic economic concepts underpin the choices confronting policymakers, to help you interpret the social world. We focus on a number of topics applicable to a wide range of social and policy issues including how to make better decisions and minimise biases in perception. We then apply the economists' spectacles to strategic interactions, showing decision makers how to reason one's way through a variety of types of interactions. Applications to business, politics, and public policy are included.

Seminars and workshops are delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends.

Prerequisites: Enrolment in Master of Public Policy and Management, Master of International Affairs, Master of International Affairs and Security, Master of Development Studies, Master of Health Policy and Leadership or Master of Health Administration, Policy and Leadership.

### **Thinking Mathematically (EDN114)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit is designed for future teachers of K-7 mathematics. Both the content: number and algebra; geometry and measurement; probability and statistics; and the characteristic processes of problem solving, reasoning and numeracy are addressed.

Lectures: 1 hour per week; workshops: 2 hours per week.

Accessing online learning resources recommended in the LMS.

Prerequisites: Enrolment in an initial teacher education course.

Exclusions: Students who have successfully completed EDU162 Cultural Mathematics may not enrol in this unit for credit.

Students who have not successfully completed mathematics to at least Stage 2 Year 12 level are strongly encouraged to complete EDN110 Mathematics for Teaching before enrolling in EDN114. If students fail EDN110 they cannot enrol in EDN114 Thinking Mathematically. If students fail EDN114 and have not already completed EDN110, then they must complete EDN110 before enrolling again in EDN114.

### **Thinking Scientifically (EDN115)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

For students intending to be early childhood, primary or lower secondary school science teachers, or for those who wish to strengthen their knowledge and skills in science and scientific reasoning. Students study key unifying themes of science including: working scientifically, chemistry, earth science and, physics. Emphasis will be on understanding the conceptual bases of science. The unit will concentrate on developing skills in investigating, communicating and evaluating the relevance and importance of scientific literacy.

Lectures: 1 hour per week; laboratories: 2 hours per week.

Prerequisites: Nil.

Exclusions: This unit is not available to students enrolled in a Science major. Students who have successfully completed EDU113 Introduction to Science may not enrol in this unit for credit.

### **Thinking Theology (THE505)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces students to the sources, methods and core questions of systematic theology. In this unit, the nature and content of fundamental Christian beliefs will be explored, as well as why and how these beliefs arose. Students will be challenged and encouraged to think theologically themselves.

Seminars: 1 x 2 hours per week.

For internal and external students, an online discussion forum is part of the unit, which will facilitate interaction between students with input from the tutor. Participation in this forum is part of the assessment.

Prerequisites: Enrolment in graduate-level study.

**Time Series Analysis (MAS352)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces methods for the analysis of measurements made sequentially over time and a brief look at data which are multivariate and correlated. Time series models are developed and inferential procedures (estimation, testing, forecasting) discussed. The unit also includes frequency domain methods for the extraction of signals from noisy data and discussion of linear systems. Applications of time series analysis are shown on Perth temperature data illustrating concepts useful for forecasting and demonstrating aspects of climate change.

Lectures: 3 x 1 hour per week; laboratories/tutorials: 1 x 1 hour per week.

Prerequisites: MAS222/MAS278 Probability and Statistical Inference OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management OR enrolment in a postgraduate IT course. In addition students must have a calculus background equivalent to at least either MAS161 Calculus and Matrix Algebra OR MAS221/MAS208 Mathematical Modelling.

Exclusions: Students may not enrol in this unit and either of MAS180 Introduction to Statistics or MAS183 Statistical Data Analysis concurrently. Students who previously successfully completed MAS368 Time Series and Multivariate Analysis cannot enrol in this unit for credit.

**Torts (LLB152)**

Credit Points: 3

MURDOCH: S2-internal

This unit aims to acquaint students with the law concerning civil liability to compensate for harm caused by wrongful conduct (the tort). The emphasis is on negligent conduct, including words and deeds, causing damage to the person or property or economic loss. This unit will consider the Civil Liability Act 2002 (WA) and its interpretation. Other forms of liability tort including liability for intentional torts are also examined.

Lectures: 36 hours per semester and Workshops: 10 hours throughout the semester

Prerequisites: Enrolment in the LLB, and successful completion of LEG150 (prior to 2012) OR LAW150/BJU100 Australian Legal System OR concurrent enrolment in BJU100 Australian Legal System.

Exclusions: Students who have successfully completed LAW152 Torts may not enrol in this unit for credit.

**Tourism and Events Project (TOU322)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Tourism and events, combine to be one of the largest industries globally, they have been used as development tools from the local community engagement to a focus for international aid. Tourism and events are dependent upon global policies and politics; and are highly responsive to natural, economic and political occurrences focussing on authentic, historical and cultural situations. Students undertake independent research on a Tourism or Events topic of their own, with the approval of the Unit Coordinator

Workshop: 2 hours; lectures will be available on LMS.

Prerequisites: TOU101 Introduction to Tourism Systems; TOU102 Travel and Tourism in Society; TOU221/TOU201 Sustainable Tourism.

Exclusions: TOU302 Tourism Projects

**Tourism and Hospitality Law (BSL204)**

Credit Points: 3

MURDOCH: S1-internal, S1-external  
KAPLAN-SGP: TJA-internal, TSA-internal

Management professionals operating in the industry require knowledge of relevant common law and legislation likely to have an impact. This unit focuses on contracts for passenger transport and traveller accommodation, tort law relevant for tourism, consumer protection for travellers, carrier liability laws, travel agency law, and the law relating to food, beverage and other tourist activities and attractions.

Lecture 2 hours per week from week 2.

5 hours of online learning activities.

Prerequisites: Successful completion of BSL165 Foundations of Business Law / BUS165 Principles of Commercial Law

Exclusions: Students enrolled in the Bachelor of Laws (LLB), OR who have completed BSL207 / BUS207 Tourism and Hospitality Law may not enrol in this unit for credit.

**Transformations in the Global Order (POL333)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit analyses contemporary transformation in global order by critically interrogating some of the key concepts, practices and theories that have defined the study of global politics. This course seeks to encourage students to examine the broader context of the discipline of international relations (IR) through reflective and engaged thinking about the connection between IR theory and practice. Five key IR concepts - sovereignty, hegemony, globalisation, transnationalism and identities - are used to interrogate the changing nature of global order.

2.5 hour lecture/workshop per week.

Prerequisites: Nil.

**Transforming Business (BBS150)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The relationship between business and the wider community continues to change in new and significant ways. Today, the global economy is an intricate web of social, political and economic entities. This unit allows students to understand the purpose and nature of business activity and the factors that influence and constrain business behaviour and decisions, as well as the commonalities and differences across various regions and countries.

Workshops: 2 hours per teaching week

Prerequisites: Nil.

**Transition to Biological Science Studies 1 (EQU021)**

MURDOCH: S1-internal, S2-internal

This unit provides for tutorial assistance in developing general study skills with supplementary teaching in MAS183 Statistical Data Analysis and Databases, and elective unit.

Tutorials: 4 hours per week.

There will be continuous opportunity for further daily discussion with the Waardong Special Education Officer, regarding the supported units, and additional seminars and tutorials can be arranged as required.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering biological science based courses through the Waardong program.

### **Transition to Biological Science Studies 2 (EQU022)**

MURDOCH: S1-internal, S2-internal

This unit incorporates general study skills development with supplementary teaching in BSC150 What is Science? and the transition unit.

Tutorials: 4 hours per week.

There will be continuous opportunity for further daily discussion with the Waardong Special Education Officer, regarding the supported units, and additional seminars and tutorials can be arranged as required.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering biological science based courses through the Waardong program.

### **Transition to Biological Science Studies 3 (EQU023)**

MURDOCH: S1-internal, S2-internal

This unit incorporates general study skills development with supplementary teaching in 2 course specific core biology units or electives.

Tutorials: 4 hours per week.

There will be continuous opportunity for further daily discussion with the Waardong Special Education Officer, regarding the supported units, and additional seminars and tutorials can be arranged as required.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering biological science based courses through the Waardong program.

### **Transition to Biological Science Studies 4 (EQU024)**

MURDOCH: S2-internal

This unit incorporates study skills development with supplementary teaching in BIO152 Cell Biology and BMS107 Principles of Vertebrate Physiology.

Tutorials: 4 hours per week.

There will be continuous opportunity for further daily discussion with the Waardong Special Education Officer, regarding the supported units, and additional seminars and tutorials can be arranged as required.

Prerequisites: This unit is restricted to Aboriginal and Torres Strait Islander students entering biological based science courses through the Waardong program.

### **Transition to Nursing Studies (BNR100)**

Credit Points: 3

MURDOCH: S1N-external, S2N-external  
MANDURAH: S1N-external, S2N-external

This unit introduces students to the nursing profession, university culture, and the inherent requirements of nursing. Skills associated with academic writing, critical thinking, researching, referencing, and professional language will be explored and practised. Students will examine concepts around verbal and non-verbal communication and develop interviewing skills. Numeracy, health information and communication technology will be applied in a health care context, and students will have opportunities to develop the skills and attitudes required for independent and lifelong learning, and professional practice.

2 hour on campus assessment instruction.

Lectures: 1 hour per week pre-recorded and available through the web unit on the learning management system (LMS)  
9 hours of online learning activities per week.

Prerequisites: Enrolment in the Bachelor of Nursing.

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

### **Transition to Practice (VET615)**

Credit Points: 3

MURDOCH: ASP3-internal

This is an integration unit, focussed primarily upon the student developing skills in the areas of clinical reasoning, clinical problem solving and clinical decision making. The unit will employ a multi-disciplinary approach to guide students working through complex cases and presenting problems, whilst encouraging the student to develop clinical reasoning skills. This unit is designed to integrate learning from all DVM units in fourth year, as a preparation for clinical practice in the final year of the DVM.

Lecture/Workshops: 3 x 1 hour per week.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM;  
Successful completion of all 2nd and 3rd year units.

### **Transition to Teaching (EDN550)**

Credit Points: 3

MURDOCH: S2-internal, S2-external, SB1-internal (closed),  
ST1-internal

This unit enables participants to understand and prepare for the profession of teaching. By critically examining the self as a learner/teacher, the unit enables students to understand their future careers as educators engaging with the diverse roles and responsibilities of the teacher. There is a focus on understanding the diversity of students in Australian classrooms, and on developing a critical awareness of the functions of schooling in Australia. The unit includes a compulsory placement in a secondary school.

Students offered an internship will be informed of the EDN550 structure by email.

SB1 students will attend a one week intensive program on-campus starting on the 13th February.

S2 students: Lectures/workshops: A one hour lecture and two hour workshop per week. Students are encouraged to attend and participate in workshops.

This unit has a ten day professional placement in a secondary school as part of the unit. Students must pass this placement to pass the unit.

SB1 students will complete one week of placement followed by one day a week for five weeks.

S2 students will complete a ten day block placement.

Prerequisites: Enrolment in the Graduate Diploma in Education (Secondary).

Exclusions: Successful completion of EDN112/EDN1121/BED150 Understanding Teachers' Work OR EDN5501 Transition to Teaching.

**Transition to Teaching (EDN5501)****As for EDN550 except:**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

3 hour workshops each week for the first 7 weeks of S1.

5 Day in school professional experience

Prerequisites: Enrolment in the Master of Teaching (Primary)

Exclusions: Successful completion of EDN112/EDN1121/BED150 Understanding Teachers' Work OR EDN550 Transition to Teaching.

Classroom Simulation and Micro-teaching sessions

A result of Ungraded Pass or Fail is awarded for this unit.

**Transitioning into Engineering (BEN100)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal

Skills learnt include critical, logical and creative thinking, written and oral communication, computer programming and problem solving. Students will learn structured essay writing to show evidence of arguments, academic integrity; report writing for experiment design and documentation of results; graphical and CAD drawing for visualisation of problems, evidence and solutions; and reflective writing for self-development. Numeracy skills will highlight the importance of mathematics and statistics to engineering research and practice.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week; laboratories: 1 x 2 hours per week.

Prerequisites: Enrolment in a Bachelor of Engineering or Bachelor of Engineering Honours.

Exclusions: Students who have successfully completed a Foundation Unit (units beginning with FDN) may not enrol in this unit for credit.

**Transitions to Post Carbon Society (BRD306)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit presents a range of discipline perspectives on how cities and regions may function after the Age of Oil. How will different parts of the world look without dependency on fossil fuels as the primary energy source? Post carbon societies will be varied and disciplinary perspectives blurred. Students will engage with the political economy of cultural and institutional challenges of transition, use creative problem-solving techniques to develop scenarios for different societies and compare different technologies in various industry sectors.

Lectures: 1 hour per week; workshops: 1 x 3 hours per week.

Two site visits on-campus by walking, one site visit off-campus.

Prerequisites: Nil.

This is a University-Wide Breadth Unit.

**Trauma Counselling (CSL674)**

Credit Points: 3

MURDOCH: S1-internal

In this unit students can expect to learn theories, as well as models of best practice, in the field of circumscribed and complex trauma. The unit's broad based learning framework introduces neuro-biological models, up to date brain research and corresponding advances in working with trauma. It also illuminates

the interaction between trauma and complicated grief. Attention will be given to social context and human diversity.

Lectures/Seminars: 3 hours per week.

Prerequisites: Enrolment in Master of Counselling. Other students wanting to study this unit can be interviewed by the Unit Coordinator for consideration by the Counselling Academic Chair

**Travel and Tourism in Society (TOU102)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TMA-internal

In this unit students will 'experience' the world of travel and tourism through the writings of travellers, through the work of social researchers and through their own travel experiences. The main concern in this unit will be the human dimension of tourism, the motivation to travel, the experience of travel and impacts on host communities. At least one field trip will be an important activity during the semester.

Lectures/tutorials: 2.5 hours per week.

Self directed field trip.

Prerequisites: Nil.

Exclusions: Students who have successfully completed TOU102 Introduction to Travel and Tourism may not enrol in this unit for credit.

**Treasury Management (BUS244)**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

The unit provides an introduction to fundamental concepts associated with the management of risk within an institution. Broadly, it will cover the basic financial engineering tools, the yield curve and the pricing of fixed income instruments. Specific instruments including futures, Forward Rate Agreements (FRAs), options and swaps will be discussed in detail. The unit will also consider the trading environment, focusing on market structures and function.

Lectures: 2 hours per week; tutorials: 1 hour per week.

Prerequisites: BUS140 Principles of Finance and Banking or BUS130 Foundational Mathematics for Business.

Exclusions: Students who have successfully completed BUS288 Treasury Management may not enrol in this unit for credit.

**Treasury Management (BUS288)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

The unit provides an introduction to fundamental concepts associated with the management of risk within an institution. Broadly, it will cover the basic financial engineering tools, the yield curve and the pricing of fixed income instruments. Specific instruments including futures, Forward Rate Agreements (FRAs), options and swaps will be discussed in detail. The unit will also consider the trading environment, focusing on market structures and function.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BUS130 Foundational Mathematics for Business/ BUS140 Principles of Finance and Banking

Exclusions: Students who have completed BUS244 Treasury Management may not enrol in this unit for credit.

### Treatment of Criminal Behaviour (CRM388)

Credit Points: 3

MURDOCH: T1-internal, U2-internal (quota of 30 places)

This unit covers the treatment of offending behaviour. It starts with the development of skills necessary to work with prisoners and then covers the principles of effective intervention for the treatment of violence, sex offending and substance abuse. The unit also covers techniques to aid in the successful re-integration of prisoners in community.

Lectures: 4 hours per day for 6 days spread over two weeks in Summer.

Prerequisites: Successful completion of CRM100 Introduction to Criminology, CRM203/CRM210 Criminal Behaviour

Exclusions: Students who have successfully completed CRM220/CRM320/LAW320 Sentencing and Penology, or CRM388 Rehabilitation and Penology may not enrol in this unit for credit.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. This is a practical skills based unit so enrolment need to be restricted. No admission requirements; students will be accepted until the quota is full.

### Trial Advocacy (LLB328)

Credit Points: 3

MURDOCH: SP23-internal (quota of 60 places)

The purpose of the unit is to give students an understanding of the nature of the trial process and to learn basic techniques of trial advocacy. These include identifying the case theory, opening and closing addresses, submissions on law and fact, proofing witnesses, examination, cross-examination and re-examination of witnesses, tender and proof of physical and documentary evidence

Taught intensively over 5 days

Prerequisites: Successful completion of LLB352/LAW252 Evidence

Exclusions: Students who have completed LAW328 Trial Advocacy may not enrol in this unit for credit.

The week over which this unit runs will not be announced until arrangements have been finalised with the various instructor. This unit usually runs in one of the first two weeks in July.

A result of Ungraded Pass or Fail is awarded for this unit.

This unit is subject to quota. Quota is due to interactive teaching methods. Preference will be given to students in Law in their final year.

### Triune God (THE619)

Credit Points: 3

MURDOCH: S2-internal, S2-external

In this unit we will investigate the Christian understanding of God as triune within the context of the contemporary critique of religion. We will explore the classical themes and questions of the Christian doctrine of God, as well as contemporary approaches and challenges.

Seminars: 2 hours per week

Prerequisites: THE505 Thinking Theology and THE510 Emerging Christian Theology -The Creeds (100-500CE)

Exclusions: Students who have successfully completed THE429 Triune God cannot enrol in this unit.

### Tropical Marine Biology (BIO393)

Credit Points: 3

MURDOCH: W-internal (quota of 40 places)

Ningaloo Reef is Australia's longest fringing coral reef and one of the world's largest. This broad-ranging advanced marine biology unit provides an opportunity to study tropical marine biology and ecology in a coral reef setting. It provides an introduction to Western Australian biogeography and habitats, covering advanced topics in biology, physiology and ecology of marine plants and animals. Human impacts and conservation of tropical marine environments are addressed. The field camp provides training and experience in field techniques.

Note that this unit is taught intensively over 3.5 weeks. Lectures: 12 lectures; 3 2-hour laboratory classes; 1 2-hour tutorial; field camp: 10 days. The lectures and tutorial will be held at Murdoch campus over a five-day period, although some may be held during the field camp. A 10-day field camp will be run at the Coral Bay Research Station on the Ningaloo Reef, followed by time on-campus to finalise writing reports and group presentations.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

One 10-day field trip to the Coral Bay Research Station on the Ningaloo Reef, which provides an immersive field research experience in a tropical marine environment. During the field camp laboratory sessions will provide training in algal and coral identification and survey techniques. Assessment of this component is group reports and presentations of the field projects.

Prerequisites: BIO261/BIO244 Animal Diversity/Animal Speciation, Radiation, Evolution OR BIO265/BIO245 Plant Diversity/Plant Evolution, Radiation and Adaptation OR BIO287/BIO254 Plant Diversity (Marine Science) /Marine Botany OR ENV268/ENV241 Ecology OR permission of the Unit Coordinator.

Exclusions: Students who have successfully completed BIO383 Tropical Marine Biology may not enrol in this unit for credit.

Winter term unit for approximately 3.5 weeks with a 10-day field trip and the remainder on campus. This unit will have additional costs for the field trip component. Additional costs include but are not limited to travel, accommodation, meals, facilities hire, etc.

This unit is subject to quota. Quota is due to limited transport and accommodation. In addition to quota, a minimum of 12 enrolments are required for this unit to proceed. Preference will be given to students requiring the unit as part of their major (B Marine Science) or minor (Marine Biology), followed by international students, followed by selection based on previous academic performance.

### Trusts (LLB353)

Credit Points: 3

MURDOCH: S2-internal

This unit focuses upon equity's most important creation: the trust. Students will learn about express trusts, constructive trusts and resulting trusts. The primary focus will be on the creation and proper administration of express trusts. This includes consideration of trustees' duties, the remedies available for breach of trust and the process of tracing. The classes will focus upon the case law and upon the relevant statutes - the Trustees Act 1962 (WA) and Property Law Act 1969 (WA) - and their interpretation.

Lectures: 2 hours per week; tutorials/workshops: 5 hours per semester.

Prerequisites: Successful completion of all Part 1 units in the LLB, LLB260/LAW260 Contract, and LLB251 Equity

Exclusions: Students who have successfully completed LAW351 Equity and Trust may not enrol in this unit for credit.

### Turning Points in Church History (THE509)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides an introduction to the history of Christianity by focusing on significant developments in global Christianity between the first and the twentieth centuries. Major developments in the shape of the Church, its relations with the state and wider society, divisions within Christianity, and important spiritual movements will be among some of the topics covered by the unit. Students will do some work with primary sources and develop some knowledge of important scholarly interpretations of the Christian past.

Lectures: 1 x 2 hours per week

Prerequisites: Enrolment in graduate level study.

### Turning Points in Literature (EGL121)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit introduces a diverse range of literature, from Shakespeare to the present day, and explores how literature represents or articulates cultural change. Providing an essential foundation for further literary studies, the unit encourages students to explore different ways of reading and interpreting genres: narrative fiction, poetry and drama. This unit should also have wide appeal to enterprising students from other majors who are interested in reflecting on the role and value of literature in society.

Lectures: 1 hour per week; tutorials: up to 1.5 hours per week.

Prerequisites: Nil.

### Understanding Business Research: An Introductory Approach (BBS200)

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external  
KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit introduces the research process and covers a broad range of contemporary research designs in business-related disciplines. The aim of the unit is to provide students with the opportunity to develop a critical understanding of the value of research in the business context in order to address management dilemmas.

Workshops: 2 hours per teaching week for South Street campus and at MUISC Dubai

Workshops 4 hours per fortnight at Kaplan SGP

Prerequisites: BBS100 Academic Skills for Business and BBS150 Transforming Business

### Understanding International Politics (POL161)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Aims to produce a critical understanding of global affairs. This unit's major assumption is that what we see as comprising 'international politics' is not determined exclusively by what is out there, but also by something in our own heads. It is the theories and concepts constructed by International Relations scholars that enable us to make sense of global affairs. Examines various theoretical approaches, including realism, idealism, constructivism, feminism and Marxism. Explores such issues as globalisation, development, environmentalism, and the global economy.

1.5 hour lecture; 1 hour tutorial

Prerequisites: Nil.

### Understanding Religion in Australian Society (THE627)

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit facilitates investigation of the relationship between Australian society and religion through socio-cultural studies, religious studies and history. It introduces socio-cultural theories to help students understand religion from those perspectives, and focuses on religious phenomena in Australia, including Indigenous Spirituality; Christianity; Buddhism; Islam; Judaism; Baha'i; Hinduism; and the absence of religious faith, Secularism. Students will present on issues that they may encounter in practice, and how these may be negotiated.

This unit is run in an intensive format consisting of eight 3 hour sessions over 4 weeks.

Prerequisites: Enrolment in a graduate course.

### Understanding Teachers' Work (BED150)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit introduces students to the profession of teaching. It commences by looking at the self as a learner/teacher and examines the impact this may have on the role of an educator. The unit enables students to appreciate the diverse roles and responsibilities of the teacher, to understand students as individuals and groups, and to develop a critical awareness of the function of schooling in Australia. The unit integrates school experience in both a primary and secondary school setting.

On-campus students: lectures/workshops: 2-3 hours per week.

Students are required to attend and participate in workshops.

External students are required to participate in on line workshops as required and complete a series of tasks similar to those in internal workshops.

All students must complete one week of school experience (5 days, full-time) and a TeachLive Laboratory (an on-line digital classroom)

On-campus students: lectures/workshops: 2-3 hours per week.

Students are required to attend and participate in workshops.

External students are required to complete a series of tasks based on internal workshop activities.

Prerequisites: Enrolment in an initial teacher education course or permission from the Unit Coordinator.

Exclusions: Students who have successfully completed

EDN112/EDN1121 Understanding Teacher's Work OR

EDN550/EDN5501 Transition to Teaching may not enrol in this unit for credit.

Prior to placement in any school for Professional Experience, it is mandatory that pre-service teachers complete or obtain several forms and clearances.

Information and forms regarding these mandatory requirements can be accessed via the Professional Experience website:

<http://www.murdoch.edu.au/School-of-Education/Professional-Experience>

Completion and submission of these mandatory requirements is essential before placements can be arranged. Without these clearances a student may not proceed in the unit.



**Understanding Your World (KAC003)**

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit presents students with a range of strategies and techniques specifically aimed to help them succeed in science-related tertiary or further education. The unit is designed to encourage students to develop their critical thinking, learning, and language skills to a level adequate for tertiary studies.

Workshops, 4 hours per week.

Prerequisites: Enrolment in the K-Track course. Students considering the part-time study option need to have completed KAC001 and KAC002 before attempting this unit.

**US Policies and Global Security (POL236)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit aims to develop a critical and in-depth understanding of American foreign policy and its impact on global security. Its guiding theme is the relationship between identity and security. The unit explores a range of American foreign policy actions and involvements from the Cold War to the post-Cold War era, including the Cuban missile crisis, arms control negotiations, alliance strategies, the 'war on terror' and the US relationship with global norms.

Lectures: 1.5 hours per week; tutorials: 1 hour per week.

Prerequisites: Nil.

Exclusions: Students who have completed POL211 US Policies and Global Security may not enrol in this unit for credit.

**User Interface Design (ICT396)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit focuses on providing an understanding of interface and interaction design especially for game and simulation systems. Topics covered include overview of HCl and NUIs; concepts of interface design; interaction design for different platforms; functions of interface and interaction; gesture-driven interface design.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week (1 hour unsupervised).

Prerequisites: ICT284 Systems Analysis and Design OR ICT231 Systems Analysis and Design.

Exclusions: Students who have successfully completed ICT325 Human-Computer Interaction may not enrol in this unit for credit.

**Veterinary Case Management Rounds (VET678)**

Credit Points: 3

MURDOCH: H-internal, Y-internal

This unit explores issues that are pertinent to evidence-based clinical veterinary case management. The students are required to attend and contribute to a variety of hospital rounds including (1) discipline-relevant rounds, (2) weekly multi-discipline rounds (MDR), with at least one case presentation during the unit, and/or (3) journal club or other relevant discussion rounds as determined by the Supervisor.

There are approximately 10 MDR's scheduled per semester. Frequency of discipline related rounds should be no less than weekly. Frequency of journal club should be no less than bimonthly. Attendance at >80% of rounds is necessary.

Prerequisites: Enrolment into Master of Veterinary Clinical Studies

or Doctor of Veterinary Medical Science.

**Veterinary Nutrition and Animal Toxicology (VET380)**

Credit Points: 3

MURDOCH: S1-internal

Nutritional management is core to the maintenance of health, welfare, production and disease management in domestic animals. This unit will provide students with an opportunity to learn about the fundamentals of nutrients, animal feeds, nutritional biochemistry of vitamins and minerals, interactions between nutrients and feed components, ration formulation and evaluation, practical feeding strategies for livestock and companion animals and nutrition-responsive diseases of domestic animals. The unit also provides an introduction to toxicology of animals.

Lectures: 42 lectures

Workshop: 8 x 2 hours

2 intra-semester assessments (approximately 2 hours duration each).

Prerequisites: ANS251 Agricultural Biochemistry OR VET241 Veterinary Biochemistry OR VET272 Comparative Mammalian Biochemistry

AND

ANS253 Anatomy and Physiology of Farm Animals OR ANS221 Animal Structure and Function OR VET274 Veterinary Structure and Function IV.

Exclusions: VET346 Veterinary Nutrition and Animal Toxicology; ANS354 Animal Nutrition and Toxicology.

**Veterinary Professional Investigation (VET616)**

Credit Points: 9

MURDOCH: H-internal

In this unit, students will develop independent research skills through the planning, execution and communication of a research-based or professional practice-based project of their own design. Through this process, they will gain applied knowledge and skills in veterinary research methods, critical appraisal of literature, and scientific communication.

Workshop: 6 x 2 hours; Conference: 2 x 8 hours.

Independent Research work with nominated supervisor: approximately 350 hours over 5 trimesters.

Learning experiences will vary depending on the project developed by each student, but may include opportunity for field work, laboratory placements, clinical placements, or workplace experiences as required.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

**Veterinary Professional Life I (VET210)**

Credit Points: 3

MURDOCH: Y-internal

Veterinary Professional Life is a whole-of-course professional curriculum, guiding the development of the key competencies important to professional success. This unit introduces the foundational framework and enabling skills within the VPL themes: Skills for Success; Scientific Basis of Veterinary Medicine; and Veterinary Professional Practice. Learning experiences include interactive lectures; workshops; guest seminars; and one compulsory activity within non-teaching period: a 3-day off-campus camp. Students develop the professional skills, competencies and behaviour required for success in life.

Lectures: 2 x 1 hours per week; VPL seminars: 1 hour per week; psychology seminars: 1 hour per week for 5 weeks; workshops: 1 x

2 hours per week.

Off-campus camp (3 days in non-teaching period).  
Animal Handling Practical assessment (at Murdoch University farm).

Prerequisites: Enrolment in BSc (Veterinary Biology)/Doctor of Veterinary Medicine.

### **Veterinary Professional Life II (VET684)**

Credit Points: 12

MURDOCH: H-internal

This year-long unit focuses on the development of clinical professional skills, preparedness for practice, client communication, and resilience.

1 week intensive delivery - 9 workshops at the commencement of T1 (4th year); 12 x 2hr workshops delivered over 3 full days one day per trimester 1, 2, 3 (4th year); 1 x workshop prior to the commencement of final year rotations.

14 works of extramural placements in non-timetabled time.

Prerequisites: Enrolment in BSc (Veterinary Biology)/DVM; Successful completion of all 2nd and 3rd year units.

### **Veterinary Professional Life IV (VET458)**

Credit Points: 1

MURDOCH: S1-internal

This unit aims to provide the knowledge, attitude and skills in professional development for successful transition into veterinary practice. Topics include professional and workplace issues, communication, interactions with clients and co-workers, practice policies, legal and financial issues, preparing a curriculum vitae and job application. The unit is linked to practice visits; students will explore their own personal style as they engage with the material and reflect on their experiences in practice visits.

Lectures: 1 - 2.5 hours per week (12 teaching weeks)

Prerequisites: Enrolment in Applied Veterinary Medicine; VET429 Veterinary Professional Life III.

A result of Ungraded Pass or Fail is awarded for this unit.

### **Veterinary Professional Life V (VET538)**

Credit Points: 6

MURDOCH: Y2-internal

This unit continues the professional development themes of previous VPL units, with a focus on development of key professional/life skills within an applied clinical context. Students will complete a number of assignments available through LMS. All students must undertake extra mural clinical experience in accordance with guidelines stated in the EME handbook.

Approximately 30 to 40 hours per week (during the extramural clinical experience weeks); occasional weekend and overnight participation will be required.

Prerequisites: Successful completion of the BSc in Veterinary Biology and VET558 Veterinary Professional Life IV and all fourth year units; enrolment in Bachelor of Veterinary Medicine and Surgery.

### **Veterinary Structure and Function I (VET260)**

Credit Points: 3

MURDOCH: S1-internal (quota of 110 places)

This is the first of four integrated units exploring the structure and function of the healthy animal body. These four units will incorporate anatomy, physiology, histology and embryology in

animals of veterinary interest, providing a foundation for the understanding of dysfunction and disease. This unit will focus on the musculoskeletal system, and on the neural control pathways of locomotion and peripheral sensation. Practical sessions will involve detailed topographic dissections, the examination of live animals and computer-aided learning exercises.

Lectures: 3 x 1 hours per week; laboratory sessions: 1 x 3 hours per week; revision (clinic) sessions: 1 hour per week (optional).

Private study in the Murdoch University, Veterinary and Comparative Anatomy Museum is strongly recommended.

Prerequisites: Successful completion of or exemption from all BSc (Veterinary Biology)/DVM Part I units. Students with a final scaled score of 50% or higher in Chemistry ATAR (WACE Chemistry 3A/3B) within the past three years are exempted from CHE140. Students enrolled in the BSc Animal Science/Animal Health major are eligible to enrol, subject to quota restrictions, strong academic record in relevant Part I units, and approval of both the Unit Coordinator and the Animal Science/Animal Health Academic Chair.

This unit is subject to quota. Quota is due to limited laboratory/histology facilities. Preference is given to students enrolled in the BSc (Veterinary Biology)/Doctor of Veterinary Medicine.

### **Veterinary Structure and Function II (VET271)**

Credit Points: 3

MURDOCH: S1-internal (quota of 110 places)

This is the second of four integrated units exploring the structure and function of the healthy animal. These four units will incorporate anatomy, physiology, histology and embryology in animals of veterinary interest, providing a foundation for the understanding of disease. This unit will focus on the cardiovascular, lower respiratory, and renal systems, and will include the regulation of water, electrolyte, and acid-base balance. Practical sessions will involve examination of live animals and fresh animal material, microscopy, and computer-aided learning exercises.

Lectures: 3 x 1 hour per week; laboratory sessions: 1 x 3 hours per week; revision (clinic) sessions: 1 hour per week.

Prerequisites: Successful completion of or exemption from all BSc (Veterinary Biology)/DVM Part I units. Students with a final scaled score of 50% or higher in Chemistry ATAR (WACE Chemistry 3A/3B) within the past three years are exempted from CHE140. Students enrolled in the BSc (Animal Science/Animal Health) double major are eligible to enrol, subject to quota restrictions, a strong academic record in relevant Part I units, and approval of the Unit Coordinator and Animal Science/Animal Health Academic Chair.

This unit is subject to quota. Quota is due to limited laboratory/histology facilities. Preference is given to students enrolled in the BSc (Veterinary Biology)/Doctor of Veterinary Medicine.

### **Veterinary Structure and Function III (VET273)**

Credit Points: 3

MURDOCH: S2-internal (quota of 110 places)

This is the third of four integrated units exploring the structure and function of the healthy animal. These four units will incorporate anatomy, physiology, histology and embryology in animals of veterinary interest, providing a foundation for the understanding of disease. This unit will cover the endocrine and reproductive systems, embryology, including the major tissue lineages (blood, connective tissue, muscle, nervous tissues, epithelia, integument), immunology, growth and development. Practical sessions will involve microscopy workshops and examination of live animals and fresh animal material.

Lectures: 3 x 1 hour per week; laboratory sessions: 1 x 3 hours per week; revision (clinic) sessions: 1 hour per week

Prerequisites: Successful completion of or exemption from all BSc (Veterinary Biology)/DVM Part I units. Students with a final scaled score of 50% or higher in Chemistry ATAR (WACE Chemistry 3A/3B) within the past three years are exempted from CHE140. Students enrolled in the BSc (Animal Science/Animal Health) double major are eligible to enrol, subject to quota restrictions, a strong academic record in relevant Part I units, and approval of the Unit Coordinator and Animal Science/Animal Health Academic Chair.

This unit is subject to quota. Quota is due to limited laboratory/histology facilities. Preference is given to students enrolled in the BSc (Veterinary Biology)/Doctor of Veterinary Medicine.

### **Veterinary Structure and Function IV (VET274)**

Credit Points: 3

MURDOCH: S2-internal (quota of 100 places) (closed)

This is the fourth of four integrated units exploring the structure and function of the healthy animal body. The units will incorporate anatomy, physiology, histology and embryology in animals of veterinary interest, providing a foundation for the understanding of dysfunction and disease. This unit will focus on an integrated study of the head, including the upper respiratory tract, and on the gastrointestinal tract. Practicals will involve dissections, examination of live animals and fresh animal material, microscopy workshops, and computer-aided learning exercises.

Lectures: 3 x 1 hour per week; laboratory sessions: 1 x 3 hours per week; revision (clinic) sessions: 1 hour per week.

Prerequisites: Successful completion of or exemption from all BSc (Veterinary Biology)/DVM Part I units. Students with a final scaled score of 50% or higher in Chemistry ATAR (WACE Chemistry 3A/3B) within the past three years are exempted from CHE140. Students enrolled in the BSc (Animal Science/Animal Health) double major are eligible to enrol, subject to quota restrictions and approval of the unit coordinator.

This unit is subject to quota. Quota is due to limited laboratory/histology facilities. Preference is given to students enrolled in the BSc (Veterinary Biology)/Doctor of Veterinary Medicine.

### **Veterinary Studies Masters Research Dissertation (VET649)**

Credit Points: 12

MURDOCH: H-internal, H-external, S1-internal, S1-external, S2-internal, S2-external, Y-internal, Y-external

This unit involves the completion of a research project under the supervision of a member of staff. Students must produce a dissertation of between 15,000 and 18,000 words based on their research. The dissertation will be assessed by two staff members or other appropriately qualified people as approved by the Academic Chair.

Meetings/discussions (face to face or on-line) as required.

Prerequisites: Enrolment in Master of Veterinary Studies in Veterinary Surveillance or Doctor of Veterinary Medical Science or permission of the Academic Chair. Students enrolled in the Master of Veterinary Studies in Conservation Medicine are required to have a distinction average in their required units in order to enrol in this elective unit.

### **Video Journalism (JOU367)**

Credit Points: 3

MURDOCH: S1-internal

Students will be exposed to the challenge of using moving images to tell real stories. Students will learn the conventions and techniques employed in video journalism. They will write and produce stories as well as material suitable for the web and social media. They will also examine and practice aspects of 'on-camera' presentation.

Workshops: 2 hours a week (10 weeks); seminars: 3 x 2 hours in the semester. (Dubai and Perth)

Workshops: 24 hours contact time plus online content. (KAPLAN)

Practical video journalism assignments in the community

Prerequisites: IDD129 Digital Media Skills (or MCC129 Introduction to Digital Media or MCC124 Photography and Digital Imaging or PHO124 Photography I); AND JOU104 Introduction to Journalism (or MCC104 Introduction to Journalism)

Exclusions: Students who have successfully completed MCC267 Photo and Video Journalism may not enrol in this unit for credit

### **Virtual Environments for Games and Simulations (ICT398)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit covers the modelling of physical situations. Three-dimensional virtual environments are explored in detail along with the actions and interactions of characters and objects within a virtual world. Simulation concepts and the physics behind collision response are introduced. Computer Graphics technologies enabling visual virtual worlds are also discussed.

Lectures: 2 hours per week plus optional clinics; Workshop: 1 hour per week.

Prerequisites: ICT397/ICT311 Advanced Games Design and Programming.

Exclusions: Students who have successfully completed ICT312 Virtual Environments for Games and Simulations may not enrol in this unit for credit.

### **Visa Compliance, Cancellation and Review (LLM504)**

Credit Points: 3

MURDOCH: AU10-internal

This unit examines the regulatory framework, requirements and procedures relating to cancellation, refusals, compliance, other sanctions, appeals and reviews within the Australian Visa System. Students will develop an understanding of the appropriate client options, how to formulate advice, determine strategies and provide effective advice to clients in dealing with these scenarios. The unit will cover merits and judicial review of decisions, ministerial discretion, the formulation of submissions and preparation of review documentation to government.

Taught intensively; refer to timetable or information on the School of Law website for details. Due to the nature of the offering of this unit, students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Lectures: taught intensively over 2 weeks.

Prerequisites: Enrolment in the Graduate Certificate in Australian Migration Law and Practice; completion of LLM502/LLB502 Australian Migration Law.

### **Vision Splendid: An Alternative History of Australia (HIS302)**

Credit Points: 3

Not available this year

This is the Australian history unit for students who usually do not like studying Australian history. The unit traces the history of Australia's engagement with Asia, the people and the government's attitudes to the environment, and Australia's relationship with the United States and the United Kingdom. We deal with racial tension, unfettered development, and the Australian struggle to develop a national identity as a western country on the outskirts of Asia.

Lectures/workshops: 1 x 2 hours per week.

Prerequisites: Nil.

Exclusions: Students who have completed HIS202 Australia and Its Asian Context may not enrol in this unit for credit.

### **Visual Literacy (PHO204)**

Credit Points: 3

MURDOCH: S1-internal

Understanding the image and developing visual literacy particularly as it applies to photography. Visual literacy is the ability to evaluate, apply, or create conceptual visual representations. Skills include the evaluation of advantages and disadvantages of visual representations, to improve communication, to decode and critically analyse photographic work, to create and communicate knowledge, or to devise new ways of representing insights.

Lectures: 1 hour; workshops: 1.5 hours.

Prerequisites: Nil. However basic photography skills are required to complete this unit. Students who have no experience in photography are strongly advised to complete PHO124 Photography I prior to attempting this unit.

### **Water and Earth Science (ENV243)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

The unit describes the materials and processes in landscapes including rocks, regolith and soils; and the storage and movement of water within them. Geomorphology and groundwater hydrology are studied with emphasis on the interactions between water, soils and plants. Principles and processes of the water cycle and water balance are covered with particular reference to environmental degradation (salinity, eutrophication, groundwater pollution). Laboratory and field experiments give students hands-on exposure to these issues complemented by problem-based, numerical exercises.

Lectures: 2 hours per week; practical work: equivalent to 2 hours per week.

External students should note that this unit has a compulsory week-long on-campus component.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Students are required to participate in a one-day field trip as part of the practical work. The practical work will comprise laboratory-based analyses and problem solving exercises and field excursions that examine environmental issues and their management.

External students should note that this unit has a compulsory week-long on-campus component.

Due to the nature of offering this unit students are recommended to seek confirmation of the exact attendance dates and

requirements from the Unit Coordinator closer to the commencement date of the teaching period.

Prerequisites: Nil.

Exclusions: Students who have successfully completed ENV281 Water and Earth Science may not enrol in this unit for credit.

A thorough knowledge of Year 12 secondary-level chemistry is assumed.

### **Water Conservation and Auditing (ENG341)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

An introduction to the principles of water conservation and water auditing as an important tool in implementing water conservation and as part of a general environmental management system. A primary purpose of a water audit is to improve water use efficiency by identifying opportunities for reduction in water use and recycling. Topics include: flow measurement and instrumentation, water quality requirements for various types of water use, regulations governing environmental use of water and management strategies. Case studies are discussed.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week.

There will be guest lecturers invited from industry to present case studies, and several site visits to industrial facilities and utility infrastructure during the timetabled workshops.

Prerequisites: Nil.

### **Water Engineering Intuition and Analysis (ENG516)**

Credit Points: 3

MURDOCH: S1-internal

This unit introduces the research skills that students will need in order to stay abreast of future innovations in engineering technology and to provide creative, well-integrated solutions to the problems they will face in the professional practice of water engineering. The unit will take students through full cycles of generating new knowledge and testing ideas by applying the scientific method. Through this experience students will build a base of engineering intuition which is indispensable to engineering practice.

Lectures: 1 x 2 hours per week; workshops: 1 x 2 hours per week

Students may be required to attend site visits (i.e. field trips) that will give a context for the content and learning objectives of this unit.

Practicals may also be employed within this subject, again to underline the important elements of the students' expected learning outcomes.

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

### **Water Regulation, Finance and Management (ENG509)**

Credit Points: 3

MURDOCH: S1-internal

All water treatment processes are part of a larger social, economic, and/or political enterprise. This unit provides the student with an awareness of the regulatory and social constraints which determine the viability of the system and with an ability to calculate and compare the economics of implementation, operation, maintenance, replacement and financing of a water treatment scheme.

Lectures: 2 hours per week; workshops: 1 hour per week.

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

### **Water Treatment Operations (ENG343)**

Credit Points: 3

MURDOCH: S2-internal

This unit introduces the student to the function and design of the primary physical and chemical technologies which are used to treat water. These technologies are the basis of municipal potable water treatment, as well as industrial, mining, protected agriculture, food processing, and even under-sink residential applications. Particular emphasis is placed on the principles of operation and the manipulation of design parameters, allowing the technologies to be adapted to different water sources and treatment objectives.

Lectures: 1 x 2 hours per week; workshop 1 hour per week.

Prerequisites: Completion of second year engineering or permission of the Environmental Engineering Academic Chair.

### **Water Treatment Technology Practical (ENG517)**

Credit Points: 3

MURDOCH: S2-internal

This unit engages the student with practical laboratory experiments that foster a deeper and applied understanding of the scientific and engineering principles and evaluation techniques learned in their previous coursework in water treatment, wastewater treatment, water chemistry, and water recycling. In addition, it provides a basic applied introduction to research skills, intuition, and analyses. Students quantify key processes of water pollution and its treatment and devise test and evaluate up-to-date treatment technologies.

Full-time laboratory activities: 2 x 1 week blocks; practical examination: half day

Prerequisites: Enrolment in graduate coursework in a Murdoch Environmental, Chemical or Metallurgical Engineering discipline. Other Murdoch graduate students with equivalent qualifications may be enrolled with permission from the unit coordinator.

### **Web Analytics (WEB564)**

Credit Points: 3

MURDOCH: S2-internal

This unit examines the process of developing, analysing and implementing web analytics. Students will learn how to design and implement effective web data collection tools and processes for a range of search engine optimisation, strategic and business applications. In this hands-on unit, students will conduct research on target demographics, analyse both qualitative and quantitative data, and then present their results.

Seminars/workshops: delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff. Lectures will be delivered online.

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

### **Web and Mobile Computing (ICT286)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit provides an intermediate technical understanding and practical experience in developing web and mobile applications for both the traditional computer systems and for mobile devices. Topics include: design and implementation of web and mobile applications using languages, and tools and technologies such as HTML, CSS, JavaScript, AJAX, Apache Cordova, PHP, JSON, and MySQL, administration of web servers on a Unix system, and an introduction to web security.

Lectures: 2 x 1 hour per week; tutorials: 2 x 1 hour per week (1 hour unsupervised).

Prerequisites: ICT159 Foundations of Programming or ICT102 Introduction to Computer Science.

Exclusions: Students who have successfully completed ICT211 Web Computing may not enrol in this unit for credit.

### **Web Communication Professional Placement (WEB325)**

Credit Points: 3

MURDOCH: S1-placement, S2-placement, SUM-placement, U-placement, W-placement

The aim of this unit is to give selected final year students in Web Communication on-the-job industry experience to provide a practical bridge from university into the workplace. Industry placements in metropolitan or regional centres will be full-time across four weeks (or part-time equivalent). During this time students are required to demonstrate a range of skills relevant to their vocational specialisation.

There are no timetabled learning activities.

Prerequisites: Students must be enrolled in the BA (Web Communications) and have a distinction average. Enrolment requires permission of the Unit Coordinator.

Students should contact the unit coordinator regarding enrolment.

### **Web Communication Project (WEB301)**

Credit Points: 3

MURDOCH: S1-internal, S2-internal  
KAPLAN-SGP: TMA-internal

This is a project based unit allowing students to apply their theoretical learning to an authentic web communication project in order to develop high-level web strategy skills. Students may participate in a client or educator-led project under the supervision of an academic member of staff. Students may work individually or as a member of a team. The precise nature of the project and the assessment requirements are negotiated with the Unit Coordinator.

Seminars: 4 hours every second week.

Students will be expected to read additional technical articles and analyse contemporary web site design and social media platforms.

Prerequisites: Successful completion of MCC278 Web Strategy or WEB278 Web Strategy.

Exclusions: Students who have successfully completed MCC316 Communication Projects may not enrol in this unit for credit.

**Web Computing (ICT211)**

Credit Points: 4

Not available this year

This unit provides an intermediate technical understanding and practical experience in Internet and Web technologies. Topics include: design and implementation of web applications using languages and tools such as XHTML, CSS, JavaScript, PHP, and MySQL; administration of web servers on a Unix system, an introduction to Internet security and Ajax technology.

Lectures: 2 hours per week; tutorials: 2 hours per week (1 hour unsupervised).

Prerequisites: ICT108 Introduction to Multimedia and the Internet or ICT102 Introduction to Computer Science.

**Web Design (WEB263)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit provides students with a solid basis in the theory, design and technology of website design. It examines the application of visual communication and graphic design along with the integration of HTML, CSS and Java script in web design. This unit also looks at web development, interaction design, user experience, content strategies and project management for the web.

Online lecture; media laboratories: 2.5 hours per week.

Prerequisites: IDD118 Introduction to Graphic Design

Exclusions: Students who successfully completed MCC263 Web Design may not enrol in this unit for credit.

**Web Metrics (WEB302)**

Credit Points: 3

MURDOCH: S1-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit explores the strategic and business application of web metrics. Students will be guided through the practical and theoretical aspects of planning, gathering, measuring, analysing and strategically using website data for a range of applications.

Online lecture; Media laboratories: 2.5 hours per week

Prerequisites: Nil.

**Web News Production (MCC217)**

Credit Points: 4

DUBAI-ISC: TMD-internal

This unit will prepare students for work in a fully converged news room. Students will collect, edit and script news stories in all three on-line formats; print, audio and video.

Lectures: 1 hour a week; tutorials 1.5 hours a week.

Prerequisites: MCC104 Introduction to Journalism AND MCC105 Introduction to Radio. Highly recommended: MCC245 Media Law and Ethics.

**Web Planning (WEB565)**

Credit Points: 3

MURDOCH: S2-internal

This unit focuses on the development of strategic planning for web communications campaigns. Students will research and analyse key strategic communications theories definitions, history, scope, and

the underlying methods of planning practice. Ethical issues and laws that affect the practice of strategic communication are covered. In addition, students will study key principles and competencies in planning, and implementing and evaluating a successful web plan in the context of a web communications campaign.

Seminars/workshops: delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff. Lectures will be delivered online.

Prerequisites: Enrolment in a graduate-level (AQF level 8) course.

**Web Strategy (MCM502)**

Credit Points: 3

MURDOCH: S1-internal

This unit explores the function and form of communications strategy in the web environment by analysing the impact of the Internet - in particular websites, social media and mobile communication technology - on the way that organisations interact with stakeholders and audiences in the online public sphere. Students will engage with public relations, marketing communication and Internet theory in order to research, develop and implement strategy in real time for real life projects.

Seminars/workshops: delivered in intensive teaching mode (24 hours contact time), which may include evenings and weekends. Students will complete assignments independently in consultation with teaching staff.

Prerequisites: Enrolment in a graduate-level course.

**Web Strategy (WEB278)**

Credit Points: 3

MURDOCH: S2-internal

KAPLAN-SGP: TJA-internal, TSA-internal

This unit explores the theory and practice of online web communication strategy, development and implementation. It provides important principles for understanding the impact of new media on communications disciplines including public relations and marketing. In addition to learning about the use of technology to enhance offline communications strategies, students will learn how to develop campaign plans utilising web communication platforms such as web sites, multimedia and social media for a variety of organisations.

Seminars: 4 hours in weeks 1, 3, 6, 8, 11 and 13

Prerequisites: Nil.

Exclusions: Students who have successfully completed MCC278 Web Strategy may not enrol in this unit for credit.

**Wellbeing (BRD251)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit examines the notions of wellbeing in a postmodern society, from a range of interdisciplinary perspectives and in varying contexts. This is valuable to address the dimensions of wellbeing from a holistic approach. This approach will enable students to explore physiological, creative, psychological, historical, philosophical, environmental, emotional and economic perspectives of wellbeing. Integration of these perspectives will assist the student to articulate personal understandings of wellbeing and better apply the concept to their own lives.

Murdoch Campus 12 x 2 hr weekly tutorial workshops

Dubai Campus 12 x 2 hr weekly tutorial workshops  
Singapore - 6 x 4 hour fortnightly tutorial workshops

6 x 1 hour blended learning lecture content

Prerequisites: Nil.

Exclusions: Students who have successfully completed FDN111 Wellbeing may not enrol in this unit for credit.

This is a University-Wide Breadth Unit.

### **What is Science? (BSC150)**

Credit Points: 3

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The challenges of the future require creative thinking and an interdisciplinary approach to solve complex social, health, technological and environmental problems. This unit will introduce you to the history and philosophy of Science and the interconnected nature of the scientific disciplines. It explores how scientific ways of thinking and knowing have emerged and how science informs and is framed by non-scientific ways of thinking and broader social agendas. Be prepared to challenge what is known/unknown in your discipline.

Lectures: 1 hour per week; laboratories: 2 hours per week, commencing in week 2.

Prerequisites: Nil.

### **Wildlife Biology (BIO376)**

Credit Points: 3

MURDOCH: S2-internal

Effective conservation and management of wildlife needs to be informed by scientifically-rigorous wildlife research. This unit develops the knowledge and skills biologists need to study natural populations of terrestrial vertebrate wildlife. Students will be immersed in real wildlife research projects using case studies, and through practical experience of studying wildlife in the field. Topics include: Australian vertebrates - the taxa; wildlife and habitat; research design; methods for detecting and studying animal populations; estimating abundance; use of population and ecological data.

Workshops/Lectures: 1-2 hours per week; Practicals: 4 hours per week (not in all weeks).

A field project offers intensive hands-on experience in the study of the biology/ecology of fauna in their natural habitat.

Prerequisites: BIO368 Conservation Biology or BIO375 Conservation Biology

Exclusions: Students who have successfully completed BIO317 Wildlife Biology may not enrol in this unit for credit.

### **Wildlife Comparative Pathology (VET605)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will introduce students to studying disease in wildlife, including causes, pathogenesis (mechanisms of disease development), presenting clinical signs, appropriate methods for diagnostic sampling, and applied skills such as necropsy and sample collection. The focus is on both individual pathology and disease in populations, covering common disease threats for conservation across wildlife groups including reptiles, mammals, amphibians and birds.

Tutorials: 1 x 2 hours per week for internal students.  
Online discussion and lectures for external students.

Online discussions and lectures for external students.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

### **Wildlife Comparative Pathology (VET664)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This elective unit aims to provide students with an understanding of fundamental issues associated with disease investigation and comparative pathology of wildlife. The unit focuses on the pathobiology of common diseases of mammals, birds, reptiles and amphibians.

Tutorials: 2 hours per week for internal students; online discussion for external students.

Online discussion for external students.

Prerequisites: Enrolment in Master of Veterinary Studies (Conservation Medicine) or Doctor of Veterinary Medical Science.

Enrolment in this unit in the internal mode is subject to approval by the Academic Chair.

### **Wildlife Epidemiology and Disease Risk Analysis (VET606)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This course will provide students with a firm grounding in the principles of epidemiology, including disease causation, patterns of disease in populations, testing for disease and interpretation of results, and basic disease surveillance design principles. Students will also be introduced to Disease Risk Analysis tools for identifying hazards, estimating likelihoods and consequences of disease, and risk mitigation/communication strategies. There will be a specific focus on how to apply these methods to the investigation of wildlife disease.

Tutorials: 1 x 2 hours per week for internal students  
Online discussion and lectures for external students.

Online discussions and lectures for external students.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

### **Wildlife Health and Conservation Dissertation (VET653)**

Credit Points: 9

MURDOCH: H-internal, H-external, Y-internal, Y-external

Students undertake an advanced, supervised investigation of a research problem related to the area of Wildlife Health and Conservation. They will report on the rationale, methods and results of the research and will be assessed on the basis of the quality of a dissertation. Topics are applied in nature, and will be chosen in consultation with the Unit Coordinator and the supervisor. The dissertation will be assessed by two staff members or other appropriately qualified people as approved by the Academic Chair.

Learning activities will be flexible based on the nature of the research proposal and activities, and will be decided with the student by week 2 of the starting semester.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

Dissertations will normally involve a supervisor from Murdoch staff, and potentially another supervisor or collaborators according to the nature of the dissertation topic. Students will be assessed by their Murdoch supervisor and another nominated supervisor. Enrolment in this unit is subject to approval by the Academic Chair. Students enrolling in this unit must discuss their options for research topics with the unit co-ordinator in advance of enrolment.

### **Wildlife Health and Conservation Project (VET654)**

Credit Points: 9

MURDOCH: H-internal, H-external, Y-internal, Y-external

This unit requires the application of research skills and the substantial investigation of a topic relevant to the student's main area of study. Students may elect to undertake a field placement with a conservation project in Australia or overseas as a component of this unit, in which case their assessment will involve undertaking a Project focusing on a topic related to the placement.

Learning activities will be flexible based on the nature of the project, and will be decided with the student by week 2 of the starting semester.

Prerequisites: Students must be enrolled in the following: Master of Wildlife Health and Conservation (M1232) or the Master of Veterinary Studies in Conservation Medicine (M1122).

### **Wildlife Medicine (VET631)**

Credit Points: 3

MURDOCH: S1-internal, S1-external

This unit provides basic skills necessary to deal with sick and injured wild fauna, including wildlife cases which could be presented for examination and treatment to veterinarians in private practice. It covers appropriate methods of physical and chemical restraint; diagnosis and treatment of common diseases and injuries; zoonoses; and nutrition and husbandry associated with management of wild fauna in captivity. Students can select elective modules from a range of topics relevant for veterinarians working with wildlife and zoo animals.

Tutorials: 1 x 2 hours per week for internal students; online discussion for external students.

Online discussion for external students.

Prerequisites: Enrolment in Master of Veterinary Studies (Conservation Medicine), Master of Veterinary Studies (Small Animal Practice) or Doctor of Veterinary Medical Sciences.

Enrolment in this unit in the internal mode is subject to approval by the Academic Chair.

### **Wind and Hydro Power Systems (ENG339)**

Credit Points: 3

MURDOCH: S2-internal

This unit provides students with an understanding of both wind power and hydro power systems. The first part of the unit consists of 8 lectures on different aspects of wind technology, backed by laboratory/field work involving the use of state-of-the-art industry programs for assessing the wind resource, designing turbines and planning wind installations. The second part of the unit consists of 4 lectures and associated laboratories on the planning, design and integration of hydro power systems.

Lecture/Workshop: 1 x 3 hours per week (notionally 2 hours of lecture and 1 hour tutorial); Laboratories: 1 x 3 hours per week, except for Week 1.

Prerequisites: PEN120 General Physics or PEN152 Principles of Physics and BEN100 Transitioning into Engineering and ENG297

Circuits and Systems II.

### **Wireless and Interactive Networks (ICT369)**

Credit Points: 3

MURDOCH: S2-internal

This unit will explore wireless networks and service provider technologies. It focuses on the data link layer, with particular emphasis on the types of links and services that service providers offer to consumers. There is an early emphasis on the operation, design and configuration of WiFi. Students will understand LTE, HSPDA, ADSL, DOCSIS, GPON and the MAC and physical characteristics of these link types. Students will also implement the authentication, encryption and tunneling services that are frequently used over the internet.

Lectures: 1 x 2 hours per week; tutorials: 1 x 2 hours per week.

Prerequisites: ICT120 Principles of Data Communications OR ICT291 Network Design and Implementation.

Exclusions: ICT264 Wireless Networks.

### **Wireless Data Communications (ICT503)**

Credit Points: 3

MURDOCH: S1-internal

This unit will explore wireless networks with an emphasis on the types of links and services that service providers offer to consumers. There is an early emphasis on the operation, design and configuration of WiFi. Students will understand LTE, HSPDA, ADSL, DOCSIS, GPON and the MAC and physical characteristics of these link types. Students will also implement the authentication, encryption and tunnelling services that Internet service providers offer to customers.

Workshops: 1 x 3 hours per week.

Prerequisites: Enrolment in a graduate IT course or permission of the Academic Chair.

Exclusions: Students who have completed ICT564 Wireless Networks may not enrol in this unit for credit.

### **Women in Asian Societies (AST288)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit examines the role and status of women in Asian societies. It considers representations of the feminine in traditional culture as well as contemporary society. Special emphasis will be placed on the implications for women of current social and economic changes in the region including government policies affecting reproduction and the family, women's involvement in subsistence agriculture, industry and the development process. Autobiography and film will be used to supplement anthropological and sociological case studies.

Internal Seminars: 1 x 3 hours per week; external online discussion forum.

Students are expected to watch 2 x 45 minute online lecture per week, before attending seminar/workshop. External students will participate in an online discussion forum.

Prerequisites: Nil.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement.



**Work and Well-being (PSY612)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Aim: to acquaint students with issues related to the well-being of workers. Topics: theories and management of work related stress, mental health (and ill health) at work, and impact of retirement, retrenchment and unemployment. The unit also covers issues of safety and accident causation, safety measures, improving safety performance, and human factors underlying work performance. Focus will be on maintaining the physical and psychological well-being of the individual employee in a climate which is compatible with the organisational objectives.

Internal: 3-hour weekly seminars.

Internal and External: Online discussions with minimum contribution requirements.

Prerequisites: Enrolment in Postgraduate/Graduate Certificate in OHRs or PgDipConsultPsych or GDipConsultPsych or MAppPsych or MAppPsych(Professional) or DPsych or MAppPsych/PhD, or for other Masters courses students need to obtain the permission of the Unit Coordinator.

Exclusions: Students who have successfully completed PSY512 Work and Wellbeing, or MBS570 Health and Wellbeing in the Workplace may not enrol in this unit for credit.

**Work-Based Learning (BUS267)**

Credit Points: 3

MURDOCH: S1-internal (quota of 50 places)

Utilise current employment (full-time, part-time or casual) and integrate formal learning outcomes with learning at work. Reflect on the synthesis between workplace experiences and learnings and integrate those with formal in-class learning. Opportunity to consolidate theoretical knowledge and develop professional competence in the workplace. Learning experience takes place inside and outside the classroom participating in real world business experiences and incorporating this into formal studies. Can be undertaken as a general elective in undergraduate courses University-wide.

Lectures/seminars: 3 hours per week.

Prerequisites: Nil.

Since having an existing job is a required component, students are required to ensure they withdraw from the unit in a timely manner should their working circumstances change.

This unit is subject to quota. Quota is due to limited resources. Students must already be in the workplace either full-time, part-time or casual.

**Working with Indigenous Communities: Internship (AIS308)**

Credit Points: 3

MURDOCH: S1-internal

This is the capstone unit for the major in Australian Indigenous Studies. The major component is a professional internship placement, where students spend a number of weeks working with an Indigenous community organisation and/or in Indigenous contexts. Coursework comprises an exploration framework for cross-cultural interaction engagement in work settings, such as Indigenous protocols, cultural safety and cultural competence. Finally, students will synthesise both this unit and the overall AIS major to describe how this might be applied in professional contexts.

Seminars: 4 x 2 hours

Work placement.

Prerequisites: AIS180 Introduction to Australian Indigenous Studies or AIS110 Introduction to Indigenous Popular Culture and AIS204 Australian Indigenous Politics: Historical Contexts and Contemporary Issues or approval of the Academic Chair.

Exclusions: Students who have successfully completed AIS222 Working with Indigenous Communities: Internship may not enrol in this unit.

**Workplace Law (BSL202)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

This unit examines the legal relationship between an employer and employee in Australia. It begins with a study of the individual contract of employment focusing on the common law rights and duties of employers and employees, and then proceeds to take an overview of relevant federal legislation. A particular interest is taken in minimum standards, regulation of collective bargaining, industrial action, dismissal and work health and safety.

Lectures/workshops: 2 hours per week over 12 weeks.

This teaching pattern is applicable for offerings at Murdoch South Street, and Dubai - ISC

Kaplan - SGP the teaching pattern will be 4 hours per fortnight over 12 weeks.

Online learning experiences

Prerequisites: Successful completion of BSL165 Foundations of Business Law / BUS165 Principles of Commercial Law or LLB260 Contract law

Exclusions: Students enrolled in the Bachelor of Law (LLB), OR who have successfully completed BUS228 Employment Law, BSL228/BUS228 Workplace Law or LAW363 Employment Relations Law may not enrol in this unit for credit.

**Workplace Law (BUS228)****As for BSL202 except:**

Credit Points: 4

DUBAI-ISC: TJD-internal, TSD-internal

Lecture: 2 hours per week; tutorial: 1 hour per week

Prerequisites: Successful completion of BUS165 Principles of Commercial Law or BSL165 Foundations of Business Law

Exclusions: Students enrolled in the Bachelor of Law (LLB), OR who have successfully completed BSL228 / BSL202 Workplace Law may not enrol in this unit for credit

**World of Sport (BRD210)**

Credit Points: 3

MURDOCH: S2-internal, S2-external

Drawing on perspectives from psychology, exercise science, pharmacology, sociology, media, ethics and business this unit requires students to consider current themes in sport. These include the limits of high performance sport, sport for mental and physical health, the values of participation and competition, and sport and Australian culture. Students are encouraged to think critically and analyse a wide range of information and perspectives to better understand why sport has become an important facet of modern life.

Lectures: 1 hour per week; tutorials: 1.5 hours per week.

Prerequisites: Nil.

This is a University-Wide Breadth Unit.

### World Religions (REL101)

Credit Points: 3

MURDOCH: S2-internal, S2-external

In Australia, multiple religions coexist, along with secularism. In this unit, the significance of religion in the modern world is examined through a comparative study of Hinduism, Buddhism, Judaism, Christianity and Islam. Themes such as the representation of images, the interpretation of sacred texts, ethics, birth and death are explored. Contemporary issues are examined from multiple perspectives. The aim of this unit is to provide a basic religious literacy that will enable you to critically engage with different religious perspectives.

Lectures: 1 hour per week; tutorials: 1 hour per week.

This unit does not offer structured field trips but students may independently visit places of worship for the five religions and talk with religious practitioners.

Prerequisites: Nil.

Exclusions: Students who have successfully completed THE282 World Religions may not enrol in this unit for credit.

This is a University-Wide Breadth Unit. If this unit is taken as a Core or Specified Elective unit in a student's major or minor, it cannot also be used to satisfy the University-Wide Breadth Unit requirement. If taken as a University-Wide Breadth Unit, this unit will contribute to satisfying that Part II requirement of the Bachelor degree, however its credit points will be counted as Part I points; students should note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### World Religions in Historical Encounter (REL306)

Credit Points: 3

Not available this year

This unit looks at periods of history when world religions have encountered one another, with both constructive and destructive outcomes in the ancient, medieval, and modern historical periods. The unit includes encounters between Polytheism, Judaism and Christianity in the classical period; the Crusades; the intellectual and theological encounter between Islam, Judaism, and Christianity in the Twelfth Century; and the contest between Christianity, Islam, and Hinduism in India; and Buddhism and Christianity in Japan.

Lectures: 1 hour per week; Seminar: 1 hour per week.

Prerequisites: Nil.

### Worship and Liturgy (THE615)

Credit Points: 3

Not available this year

This unit introduces ritual and the use of ritual in different settings. It uses Christian liturgical praxis as an exemplar.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

There will be 3 day-long intensives (9.30 am - 5 pm), plus online contact. Dates and venues to be arranged. All material from the intensives is provided to external students who are unable to attend.

Prerequisites: Enrolment in graduate level study.

### Writing and Creativity (EGL122)

Credit Points: 3

MURDOCH: S2-internal, S2-external

This unit will teach students how to critically and imaginatively analyse and write texts. They will be exposed to some key concepts and techniques in relation to creativity and writing and introduced to ideas about content and form. Students will be given the opportunity to explore concepts in a practical way through the development of their own writing projects.

Lectures: up to 1 hour per week; workshops: 1.5 hours per week.

Prerequisites: Nil.

### Writing for the Screen (SCR200)

Credit Points: 3

MURDOCH: S1-internal

In this unit students learn about the formal elements of writing for the screen and develop a script for a short film in the genre of their choice. The unit will cover current industry standards and practice, with particular focus on writing according to funding criteria. It is recommended for students who wish to proceed to SCR201 Screen Production II and SCR320 Advanced Screen Production as scripts may be developed for production in these units.

Lectures: 1 hour per week; workshops: 2 hours per week.

Note: Lectures and workshops/tutorials commence in Week 1 of the semester.

Prerequisites: SCR101 Screen production 1 or MCC128 Screen Production I (TV Studio) (or MED107 Screen and Sound Production I (TV Studio) or MED107 Screen Production I (TV Studio) OR permission of the Unit Coordinator (subject to proven ability to write with words and images).

Exclusions: Students who have successfully completed MED312 Writing for the Screen or MCC353 Writing for the Screen cannot enrol in this unit for credit.

### Your Writing Tool-kit (KAC002)

MURDOCH: S1-internal, S1-external, S2-internal, S2-external

This unit introduces students to the fundamentals of reading and writing at university. This unit aims to develop the academic writing skills required to undertake university studies. Your writing tool-kit focuses specifically on the essay writing process, writing for argument and critical reading skills.

Workshops: 4 hours per week.

Prerequisites: Enrolment in the K-Track course.

### Youth Cultures (SOC203)

Credit Points: 3

MURDOCH: S2-internal, S2-external

Youth is often presented as a period of storm and stress or a time of crisis. On the other hand youth culture is often something many seek out, envy, and desire. This unit will acquaint students with Australian and international literature concerned with the study of youth. Students will be introduced to the history of youth, major theoretical traditions on youth culture and the various media, policy and professional responses to youth needs and interests.

Seminar: 2.5 hours per week.

Prerequisites: Nil.

Exclusions: Students who have successfully completed SOC230 Australian Youth Culture cannot enrol for credit in this unit.

It is highly recommended to have completed S134/SOC134

Introduction to Sociology prior to enrolling in this unit.

# Index

<b>3D Animation</b>	258	Community Development (BA)	55
<b>Accounting</b>	281	Community Development Honours (BA(Hons))	56
<b>Accounting</b>	12	<b>Computer Forensics and Computer Security</b>	260
Accounting (BBus)	12	<b>Computer Forensics and Information Security Policy</b>	260
Accounting Honours (BBus(Hons))	13	<b>Computer Science</b>	57
<b>Animal Health</b>	13	Computer Science (BSc)	57
Animal Health (BSc)	13	Computer Science (BSc)	58
Animal Health Honours (BSc(Hons))	18	Computer Science Honours (BSc(Hons))	59
<b>Animal Science</b>	19	<b>Conservation and Wildlife Biology</b>	59
Animal Science (BSc)	19	Conservation and Wildlife Biology (BSc)	59
Animal Science Honours (BSc(Hons))	23	Conservation and Wildlife Biology Honours (BSc(Hons))	64
<b>Anthropology</b>	258	<b>Counselling</b>	291
<b>Applied Animal Production</b>	258	<b>Creative Writing</b>	260
<b>Applied Statistics</b>	258	<b>Crime Science</b>	260
<b>Asian Studies</b>	24	<b>Criminological Psychology</b>	261
<b>Asian Studies</b>	281	<b>Criminology</b>	64
<b>Asian Studies</b>	258	Criminology (BA)	64
Asian Studies (BA)	24	Criminology Honours (BA(Hons))	66
Asian Studies Honours (BA(Hons))	28	<b>Critical and Human Security</b>	261
<b>Australian Indigenous Studies</b>	28	<b>Crop and Pasture Science</b>	66
<b>Australian Indigenous Studies</b>	259	Crop and Pasture Science (BSc)	66
Australian Indigenous Studies (BA)	28	Crop and Pasture Science Honours (BSc(Hons))	70
Australian Indigenous Studies Honours (BA(Hons))	29	Cyber Forensics and Information Security (BSc)	71
<b>Bachelor and Honours Degrees</b>	5	Cyber Forensics and Information Security Honours (BSc(Hons))	72
<b>Bachelor and Honours Degrees: Details</b>	12	<b>Cyber Forensics, Information Security and Management</b>	71
<b>Bachelor and Honours Degrees: List</b>	5	<b>Development Studies</b>	293
<b>Banking</b>	30	Doctor of Education (EdD)	302
Banking (BBus)	30	Doctor of Information Technology (DIT)	327
Banking Honours (BBus(Hons))	31	Doctor of Philosophy (PhD)	347
<b>Biological Sciences</b>	31	Doctor of Psychology (Clinical Psychology) (DPsych)	341
Biological Sciences (BSc)	31	Doctor of Psychology (Organisational Psychology) (DPsych)	342
Biological Sciences Honours (BSc(Hons))	36	Doctor of Veterinary Medical Science (DVetMedSc)	356
<b>Biomedical Science</b>	36	Double Degree Five Year	201
<b>Biomedical Science</b>	259	Double Degree Four Year	201
Biomedical Science (BSc)	36	Early Childhood and Primary Teaching (BEd)	74
Biomedical Science Honours (BSc(Hons))	41	<b>Early Childhood Education</b>	295
<b>Biosecurity</b>	284	<b>Economics</b>	72
<b>Biotechnology</b>	42	Economics (BBus)	73
Biotechnology Honours (BSc(Hons))	42	Economics Honours (BBus(Hons))	74
<b>Business Administration</b>	285	<b>Ecosystem Management</b>	261
<b>Business Information Systems</b>	42	<b>Education</b>	74
Business Information Systems (BSc)	43	<b>Education</b>	296
Business Information Systems (BSc)	42	Electrical Power Engineering Honours (BE(Hons))	101
Business Information Systems Honours (BSc(Hons))	44	<b>Energy and the Environment</b>	305
<b>Business Law</b>	44	<b>Energy Studies</b>	303
<b>Business Law</b>	259	<b>Engineering</b>	307
Business Law (BBus)	44	<b>Engineering</b>	101
Business Law Honours (BBus(Hons))	46	<b>Engineering Technology</b>	108
Chemical and Metallurgical Engineering Honours (BE(Hons))	127	Engineering Technology (BSc)	108
<b>Chemistry</b>	46	<b>English and Creative Writing</b>	114
Chemistry (BSc)	46	English and Creative Writing (BA)	114
Chemistry Honours (BSc(Hons))	51	English and Creative Writing Honours (BA(Hons))	115
<b>Chiropractic</b>	52	<b>English and Literacy Education</b>	261
Chiropractic Honours (BSc(Hons))	53	<b>Environmental Assessment and Management</b>	308
Chiropractic Science + Clinical Chiropractic (BSc+BClinChiro)	52	Environmental Engineering Honours (BE(Hons))	103
Clinical Exercise Physiology (BSc+GradDipClinExPhys)	125	<b>Environmental Issues</b>	261
Clinical Laboratory Science (BSc)	157	<b>Environmental Management</b>	115
<b>Communication</b>	260	<b>Environmental Management</b>	308
<b>Communication and Media Studies</b>	288	Environmental Management and Sustainability (BSc)	115
<b>Communication and Media Studies</b>	53	Environmental Management and Sustainability Honours (BSc(Hons))	120
Communication and Media Studies (BA)	54	<b>Environmental Science</b>	120
Communication and Media Studies Honours (BA(Hons))	55	<b>Environmental Science</b>	310
<b>Community Development</b>	55	Environmental Science (BSc)	120
<b>Community Development</b>	289	Environmental Science Honours (BSc(Hons))	125

<b>Equine Science</b>	262	Graduate Certificate in Protected Area Administration (GradCertPAAAdmin)	308
<b>Ethics</b>	262	Graduate Certificate in Tertiary and Adult Education (GradCertTerAdEd)	350
<b>Events</b>	262	Graduate Certificate in Theology (GradCertTheol)	351
Executive Master in Leadership, Strategy and Innovation (EMLeadershipStratInnov)	330	<b>Graduate Courses</b>	275
<b>Exercise Physiology</b>	125	<b>Graduate Courses: Details</b>	281
<b>Exercise Physiology</b>	312	<b>Graduate Coursework Degrees and Professional Doctorates: List</b>	275
Exercise Physiology Honours (BSc(Hons))	127	Graduate Diploma in Asian Language (In-Country) (GradDipAsianLangIn-Country)	282
<b>Extractive Metallurgy</b>	127	Graduate Diploma in Asian Studies (GradDipAsianSt)	282
<b>Extractive Metallurgy</b>	312	Graduate Diploma in Chaplaincy (GradDipChap)	351
<b>Finance</b>	129	Graduate Diploma in Clinical Exercise Physiology (GradDipClinExPhys)	312
Finance (BBus)	129	Graduate Diploma in Community Development (GradDipCommDev)	289
Finance Honours (BBus(Hons))	130	Graduate Diploma in Consultancy Psychology (GradDipConsultPsych)	334
<b>Fisheries Science</b>	262	Graduate Diploma in Counselling (GradDipCounsel)	291
FlexiTrack	2	Graduate Diploma in Creative Arts Therapies (GradDipArtTherapy)	292
<b>Food Security</b>	313	Graduate Diploma in Education (Early Childhood Education and Care) (GradDipEd(ECE&C))	297
<b>Forensic Biology</b>	130	Graduate Diploma in Education (Secondary) (GradDipEd)	298
<b>Forensic Biology</b>	263	Graduate Diploma in Education (Tertiary and Workplace) (GradDipEd)	350
Forensic Biology and Toxicology (BSc)	130	Graduate Diploma in Energy and Carbon Studies (GradDipEnCbSt)	304
Forensic Biology and Toxicology Honours (BSc(Hons))	135	Graduate Diploma in Energy and the Environment (GradDipEnEnv)	305
<b>Forensic Science</b>	313	Graduate Diploma in Engineering (GradDipEng)	307
<b>Games and Apps Production</b>	314	Graduate Diploma in Environmental Science (GradDipEnv)	310
<b>Games Art and Design</b>	136	Graduate Diploma in Extractive Metallurgy (GradDipExtMet)	312
Games Art and Design (BA)	136	Graduate Diploma in Games and Apps Production (GradDipGamesAppsProd)	314
Games Art and Design Honours (BA(Hons))	137	Graduate Diploma in Health Communication (GradDipHthComm)	318
<b>Games Design</b>	263	Graduate Diploma in Human Resources Management (GradDipHRM)	319
<b>Games Software Design and Production</b>	137	Graduate Diploma in Information Technology Management (GradDipITMan)	322
Games Software Design and Production (BSc)	138	Graduate Diploma in Internetworking and Security (GradDipIntwkSecur)	323
Games Software Design and Production Honours (BSc(Hons))	139	Graduate Diploma in Media Production (GradDipMedProd)	332
<b>Games Technology</b>	139	Graduate Diploma in Psychology (GradDipPsych)	335
Games Technology (BSc)	139	Graduate Diploma in Safety Science	348
Games Technology Honours (BSc(Hons))	140	Graduate Diploma in Theology (GradDipTheol)	352
<b>Gender Studies</b>	263	Graduate Diploma in Water Treatment and Desalination (GradDipWtTrmt)	357
Genetics and Molecular Biology (BSc)	201	Graduate Diploma in Web Communication (GradDipWebComm)	359
<b>Global Politics and Policy</b>	140	<b>Graduate Research Degrees: List</b>	279
Global Politics and Policy (BA)	141	<b>Graphic Design</b>	142
Global Politics and Policy Honours (BA(Hons))	219	Graphic Design (BA)	147
Graduate Certificate in Asian Studies (GradCertAsianSt)	281	Graphic Design Honours (BA(Hons))	142
Graduate Certificate in Australian Migration Law and Practice (GradCertAusMigLaw)	332	<b>Health</b>	315
Graduate Certificate in Business Administration (GradCertBusAdmin)	285	<b>Health Administration Policy and Leadership</b>	316
Graduate Certificate in Business Administration (MasterClass) (GradCertBusAdmin)	285	<b>Health Communication</b>	318
Graduate Certificate in Community Development (GradCertCommDev)	289	<b>History</b>	142
Graduate Certificate in Counselling (GradCertCounsel)	291	History (BA)	142
Graduate Certificate in Early Childhood Education (GradCertEarlyChildEd)	295	History Honours (BA(Hons))	144
Graduate Certificate in Education (International Education) (GradCertEdIntlEd)	296	<b>Hospitality and Tourism Management</b>	144
Graduate Certificate in Education (Secondary Mathematics 7-10) (GradCertEd(SecMaths))	296	Hospitality and Tourism Management (BBus)	144
Graduate Certificate in Education (Secondary Science 7-10) (GradCertEd(SecSci))	297	<b>Human Anatomy</b>	263
Graduate Certificate in Energy and Carbon Studies (GradCertEnCbSt)	303	<b>Human Resources and Safety</b>	321
Graduate Certificate in Environmental Assessment and Management (GradCertEnvAsstMan)	308	<b>Human Resources Management</b>	145
Graduate Certificate in Environmental Science (GradCertEnvSc)	310	<b>Human Resources Management</b>	319
Graduate Certificate in Forensic Science (Professional Practice) (GradCertForSc(ProfessionalPractice))	313	<b>Human Resources Management</b>	263
Graduate Certificate in Health Administration, Policy and Leadership (GCHAPL)	334	Human Resources Management (BBus)	145
Graduate Certificate in Health Care Management (GradCertHCM)	315	<b>Inclusive Education</b>	264
Graduate Certificate in Human Resources and Safety (GradCertHRS)	321	<b>Indonesian</b>	264
Graduate Certificate in Human Resources Management (GradCertHRM)	319	Indonesian (BA)	25
Graduate Certificate in Information Technology (GradCertIT)	322	<b>Industrial and Applied Mathematics</b>	264
Graduate Certificate in International Marketing (GradCertIM)	331	Industrial Computer Systems Engineering Honours (BE(Hons))	104
Graduate Certificate in Legal Practice (GradCertLP)	329	<b>Information Technology</b>	322
Graduate Certificate in Media Production (GradCertMedProd)	332	Instrumentation and Control Engineering Honours (BE(Hons))	106
Graduate Certificate in Plant Biosecurity (GradCertPlantBiosec)	333	<b>Interactive Digital Design</b>	147
Graduate Certificate in Policy and Development (GradCertPDev)	293	<b>International Affairs</b>	328
		<b>International Aid and Development</b>	148
		<b>International Aid and Development</b>	264

International Aid and Development (BA)	148	Master of Health Care Management (MHCM)	315
<b>International Business</b>	149	Master of Human Resources Management (MHRM)	320
International Business (BBus)	149	Master of Information Technology (MIT)	324
<b>Internet Software Development</b>	150	Master of International Affairs and Security (MIAS)	328
<b>Internetworking and Network Security</b>	152	Master of Laws by Research (LLM(Res))	330
Internetworking and Network Security (BSc)	152	Master of Philosophy (MPhil)	345
Internetworking and Network Security Honours (BSc(Hons))	153	Master of Professional Accounting (MPA)	281
<b>Japanese</b>	265	Master of Protected Area Management (MPAMan)	309
Japanese (BA)	26	Master of Public Policy and Management (MPPM)	343
<b>Journalism</b>	153	Master of Renewable and Sustainable Energy (MRenSusEn)	304
<b>Journalism</b>	265	Master of Sustainable Development (MSustDev)	349
Journalism (BA)	153	Master of Teaching (Primary) (MTeachPrim)	301
Journalism Honours (BA(Hons))	154	Master of Veterinary Clinical Studies (MVetClinStud)	354
K-Track	2	Master of Veterinary Studies (Conservation Medicine) (MVS)	354
<b>Kulbardi Aboriginal Centre</b>	2	Master of Veterinary Studies (Small Animal Practice) (MVS)	355
<b>Laboratory Medicine</b>	155	Master of Veterinary Studies (Veterinary Surveillance) (MVS)	356
Laboratory Medicine (BSc/BLabMed)	155	Master of Water Treatment and Desalination (MWatTrmt)	358
<b>Laboratory Science</b>	157	Master of Wildlife Health and Conservation (MWildlifeHth)	360
<b>Law</b>	161	<b>Mathematics and Numeracy Education</b>	266
<b>Law</b>	329	<b>Mathematics and Statistics</b>	190
Law (LLB/LLB(Hons))	161	Mathematics and Statistics (BSc)	190
Law + Arts [Combined] (LLB+BA)	164	Mathematics and Statistics Honours (BSc(Hons))	195
Law + Business [Combined] (LLB+BBus)	167	<b>Media Production</b>	331
Law + Science [Combined] (LLB+BSc)	170	<b>Media Studies</b>	266
Law - Graduate Entry (LLB)	172	<b>Migration Law</b>	332
<b>Law and Justice</b>	265	<b>Mineral Science</b>	195
Law Honours (LLB(Hons))	175	Mineral Science (BSc)	195
<b>Law, Business and Society</b>	175	Mineral Science Honours (BSc(Hons))	200
Law, Business and Society (BA)	175	<b>Minors</b>	256
Law, Business and Society Honours (BA(Hons))	176	<b>Minors: Details</b>	258
<b>Leadership, Strategy and Innovation</b>	330	<b>Minors: List</b>	256
<b>Literature</b>	265	<b>Miscellaneous</b>	201
<b>Management</b>	177	Mobile and Web Application Development (BSc)	150
Management (BBus)	177	Mobile and Web Application Development Honours (BSc(Hons))	151
Management Honours (BBus(Hons))	178	<b>Modern History</b>	266
<b>Marine Biology</b>	178	<b>Molecular Biology</b>	201
<b>Marine Biology</b>	265	<b>Molecular Biology</b>	266
Marine Biology (BSc)	178	Molecular Biology Honours (BSc(Hons))	206
<b>Marine Science</b>	183	Movement Science (BSc)	235
Marine Science (BSc)	183	Movement Science Honours (BSc(Hons))	244
Marine Science Honours (BSc(Hons))	188	<b>Nature Based Tourism</b>	267
<b>Marketing</b>	331	<b>Network Design</b>	267
<b>Marketing</b>	188	<b>Network Security</b>	267
Marketing (BBus)	188	<b>Neuroscience</b>	267
Marketing Honours (BBus(Hons))	189	Ngoolark: BA, BEd, BBus and BNurs Extension Program	2
Master of Applied Psychology (Clinical Psychology) (MAppPsych)	335	<b>Nursing</b>	206
Master of Applied Psychology (Organisational Psychology) (MAppPsych)	337	Nursing (BNurs)	208
Master of Applied Psychology (Professional) (MAppPsych(Professional))	338	Nursing (BNurs)	206
Master of Applied Psychology + Doctor of Philosophy (MAppPsych+PhD)	339	Nursing Honours (BNurs(Hons))	210
Master of Asian Studies (MAAsianSt)	283	OnTrack	3
Master of Biosecurity (MBiosec)	284	OnTrack Sprint	3
Master of Business Administration (MBA)	286	<b>Organic and Biological Chemistry</b>	267
Master of Business Administration Professional Practice (MBA(PP))	287	<b>Philosophy</b>	210
Master of Chaplaincy (MChap)	345	<b>Philosophy</b>	268
Master of Communication Management (MCommM)	288	Philosophy (BA)	210
Master of Community Development (MCommDev)	290	Philosophy Honours (BA(Hons))	211
Master of Counselling (MCounsel)	292	<b>Photography</b>	212
Master of Development Studies (MDS)	294	<b>Photography</b>	268
Master of Divinity (MDiv)	352	Photography (BA)	212
Master of Education (Coursework) (MEd)	299	Photography Honours (BA(Hons))	213
Master of Education (Research) (MEd(Res))	300	<b>Physics and Nanotechnology</b>	213
Master of Engineering (ME)	307	Physics and Nanotechnology (BSc)	213
Master of Environmental Science (MEnvSc)	311	Physics and Nanotechnology Honours (BSc(Hons))	218
Master of Food Security (MFoodSec)	313	<b>Plant Biology</b>	268
Master of Forensic Science (Professional Practice) (MForSc(ProfessionalPractice))	314	<b>Plant Biosecurity</b>	333
Master of Health Administration, Policy and Leadership (MHAPL)	316	<b>Policy Studies</b>	334

<b>Politics</b>	268	<b>Sustainability</b>	348
<b>Politics and International Studies</b>	219	<b>Sustainability, Ecosystems and Community Development</b>	272
<b>Popular Culture, Indigeneity and Nationhood</b>	268	<b>Sustainable Development</b>	272
Primary Teaching (BEd)	78	Sustainable Development (BA)	245
Primary, 1-10 Health and Physical Education (BEd)	76	Sustainable Development Honours (BA(Hons))	246
<b>Print Design</b>	269	<b>Teaching Indonesian in Primary Schools</b>	272
<b>Psychology</b>	334	<b>Teaching Japanese in Primary Schools</b>	272
<b>Psychology</b>	219	<b>Tertiary and Adult Education</b>	350
Psychology (BA)	219	<b>Theatre and Drama</b>	246
Psychology (BSc)	221	<b>Theatre and Drama</b>	273
Psychology (Kaplan, Singapore) (BA)	222	Theatre and Drama (BA)	247
Psychology Honours (BA(Hons))	223	Theatre and Drama Honours (BA(Hons))	248
Psychology Honours (BSc(Hons))	224	<b>Theology</b>	351
<b>Public Policy</b>	269	<b>Tourism</b>	273
<b>Public Policy and Management</b>	343	<b>Tourism and Events</b>	248
<b>Public Relations</b>	224	Tourism and Events (BA)	248
<b>Public Relations</b>	269	Tourism and Events Honours (BA(Hons))	249
Public Relations (BA)	224	<b>Units</b>	361
Public Relations Honours (BA(Hons))	225	<b>Units</b>	361
<b>Radio</b>	226	<b>Units: Details</b>	404
<b>Radio</b>	269	<b>Units: List</b>	362
Radio (BA)	226	<b>University Preparation</b>	2
Radio Honours (BA(Hons))	227	<b>University Preparation (Access and Enabling)</b>	1
<b>Religion</b>	344	<b>University Preparation (Access and Enabling): Details</b>	2
<b>Religion</b>	227	<b>University Preparation (Access and Enabling): List</b>	1
<b>Religion</b>	270	Veterinary Biology Honours (BSc(Hons))	253
Religion (BA)	227	<b>Veterinary Science</b>	353
Religion Honours (BA(Hons))	228	<b>Veterinary Science</b>	3
Renewable Energy Engineering Honours (BE(Hons))	107	<b>Veterinary Science</b>	250
<b>Research Degrees - General</b>	345	Veterinary Science (BSc+DVM)	250
Research Masters (with Training)	346	Waardong	3
<b>Resource Management</b>	270	<b>Waste and Water Management</b>	273
<b>Safety Science</b>	348	<b>Water Treatment and Desalination</b>	357
<b>Screen Production</b>	229	<b>Web Communication</b>	253
<b>Screen Production</b>	270	<b>Web Communication</b>	359
Screen Production (BA)	229	Web Communication (BA)	253
Screen Production Honours (BA(Hons))	230	Web Communication Honours (BA(Hons))	254
Secondary Teaching (Arts Combined Drama) (BEd+BA)	81	<b>Web Design</b>	273
Secondary Teaching (Arts Combined English) (BEd+BA)	84	<b>Web Development</b>	274
Secondary Teaching (Arts Combined History) (BEd+BA)	86	<b>Web Strategy</b>	274
Secondary Teaching (Arts Combined Languages other than English (Indonesian)) (BEd+BA)	89	<b>Wildlife Conservation</b>	274
Secondary Teaching (Arts Combined Languages other than English (Japanese)) (BEd+BA)	91	<b>Wildlife Health and Conservation</b>	360
Secondary Teaching (Combined Science Degrees) (BEd+BSc)	94		
Secondary Teaching (Science Combined Mathematics) (BEd+BSc)	97		
Secondary Teaching (Science Combined Sport and Health Science) (BEd+BSc)	99		
<b>Security, Terrorism and Counterterrorism</b>	230		
<b>Security, Terrorism and Counterterrorism</b>	270		
Security, Terrorism and Counterterrorism Studies (BA)	231		
<b>Social and Developmental Psychology</b>	271		
<b>Social Justice in Contemporary Culture</b>	271		
<b>Social, Cultural and Literary Theory</b>	270		
<b>Sociology</b>	232		
Sociology (BA)	232		
Sociology Honours (BA(Hons))	233		
<b>Sound</b>	233		
Sound (BA)	233		
Sound Honours (BA(Hons))	235		
<b>Sound Production</b>	271		
<b>Sound Studies</b>	271		
Sport and Health Science (BSc)	240		
Sport and Health Science Honours (BSc(Hons))	245		
<b>Sport Psychology</b>	272		
<b>Sports Science</b>	235		
<b>Sustainability</b>	245		