

Academic Chairs:

- Animal Health : Caroline Jacobson C.Jacobson@murdoch.edu.au
- Animal Health : Fiona Anderson F.Anderson@murdoch.edu.au
- Conservation and Wildlife Biology: Barbara Bowen B.Bowen@murdoch.edu.au

Course Core Units

Students must complete (or be exempt from) the following units: **ANS100, MAS183, CHE140, BIO152**

Note: 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 apply for exemption for CHE140 Fundamentals of Chemistry.

Note: Students commencing pre-2024 that have completed BSC100 have exemption for ANS100.

Animal Health Major

Students must complete the following units: **BMS107, ANS102, VET272, ANS221, ANS313**

plus THREE units from this list: **VET211, VET278, VET392, VET380, ANS300**

Conservation and Wildlife Biology Major

Pre-req: **BIO103, ENV241**

Students must complete the following units: **BIO152, BIO244, BIO245, BIO257, BIO356, BIO375, BIO376**

Plus select ONE from the following: **ENV328, ENV278, ECS200**

Career Learning Spine

Students must complete **THREE** career learning spine units from the approved list:

Highly recommended: ANS305 (can be repeated for credit), ANS301 (subject to availability), ANS303 (subject to availability), ANS200

Also suitable: ANS302, MSP100, MSP200, MSP201, MSP202, VLS302

General Electives added to bring total credit points to 72 points

Students should include **ONE** general elective if you have exemption for CHE140 Chemistry. The timing and type of unit is flexible with only restriction that no more than 30 credit points can come from Part 1 units.

Pre-requisite checklist

Course core

Code	Name	Pre-req	Enrolment notes
ANS100	Introduction to Agricultural Science	None	
MAS183	Statistical Data Analysis	None	
CHE140	Fundamentals of Chemistry	None	
BIO152	Cell Biology	CHE140	Recommend completing 12 points prior to enrolment

Animal Health major

Code	Name	Pre-req	Enrolment notes
ANS102	Introduction to Animal Body	None	
BMS107	Foundations of Vertebrate Form and Function	None	It is recommended that students complete BMS101 or ANS102 prior to enrolment.
VET272	Veterinary Biochemistry	BIO152	
ANS221	Animal Structure & Function	BIO152 BMS107	
ANS313	Animal Pathology and Diseases	BIO152 ANS221	Recommended complete VET272 Veterinary Biochemistry as background where possible.
VET211	Principles of Infectious Disease I - Veterinary Microbiology	BIO152	
VET278	Principles of Infectious Disease II - Veterinary Parasitology	BIO152	
VET392	One Health	VET375/ANS313 VET272 VET211 VET278	Concurrent enrolment with VET278 considered only under exceptional circumstances
VET380	Veterinary Nutrition & Animal Toxicology	VET272 ANS221	Concurrent enrolment with VET272 considered only under exceptional circumstances
ANS300	Applied Livestock Health Management	ANS101 VET211	Students will need to submit an application for enrolment

Conservation and Wildlife Biology

Code	Name	Pre-req	Enrolment notes
BIO103	Environmental Biology	None	
ENV241	Ecology	BIO103/BIO180 MAS183	
BIO152	Cell Biology	CHE140	Recommend completing 12 points prior to enrolment
BIO244	Animal Diversity	BIO103/BIO180	
BIO245	Plant Evolution, Radiation & Adaptation	BIO103/BIO180	
BIO257	Australian Biodiversity	None	
BIO356	Genetics & Evolution	MAS183/MAS182 BIO152	
BIO375	Conservation Biology	ENV241	
BIO376	Wildlife Biology	BIO375	
ENV328	Environmental Policy & Law	None	Completion of 36 credit points of study
ENV278	Nature-based Tourism	None	
ECS200	Applied Ecological Approaches	MAS183 BIO103	

Career Learning Spine

Code	Name	Pre-req	Enrolment notes
ANS305	Advanced Agricultural Career Skills	ANS100/ANS101 Or ANS101 (2020-22)	Some wildlife placements may be available for students that have not completed pre-reqs
ANS200	International Field Work in Agricultural and Environmental Sciences – Thailand	None	Students must have completed 24 credit points before enrolling in this unit
ANS301	Agricultural Study Tour Opportunities	TBA	Students will need to submit an application for enrolment, please contact Unit Coordinator.
ANS303	Livestock Industry Career Readiness	ANS333	Enrolment by application
MSP100	Career Learning: Managing Your Career	None	
MSP200	Building Employability Skills	None	
MSP201	Real World Learning	None	Successful completion of 24 credit points.
MSP202	The Search for Everything: Data Analytics and Storytelling in the Twenty-First Century	None	
VLS302	Professional Placement in Environmental and Life Sciences	None	Students must have completed 36 credit points towards their degree Students must have a GPA of 2.0 or higher.

Please note: These course plans are a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 01/11/2023

Sample plan 1

Start Date: Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ANS100 Introduction to Agricultural Science	3	BIO152 Cell Biology	3
	CHE140 Fundamentals of Chemistry (or elective)	3	BMS107 Foundations of Vertebrate Form & Function	3
	ANS102 Intro to Animal Body	3	MAS183 Statistical data analysis	3
	Pre-req BIO103 Environmental Biology	3	BIO244 Animal Diversity	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	VET272 Comparative Mammalian Biochemistry	3	ANS221 Animal Structure and Function	3
	BIO245 Plant Ev, Rad and Adapt	3	AH Specified Elective 1: VET211 Vet Micro	3
	BIO356 Genetics and Evolution	3	AH Specified Elective 2: VET278 Vet Parasitology	3
	Career learning spine 1: MSP100 or ANS305 (placement) or MSP202	3	Pre-req ENV241 Ecology	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ANS313 Pathology & Diseases of Production Animals	3	AH Specified Elective 3: VET392 One Health Or Career Learning Spine 2: ANS305 (placement) or or MSP200 or MSP201 or MSP202	3
	BIO375 Conservation Biology	3	BIO257 Australian Biodiversity	3
	CWB Elective: ENV328 or ENV278 or ECS200	3	BIO376 Wildlife Biology	3
	AH Specified Elective 3: VET380 Veterinary Nutrition and toxicology Or Career Learning Spine 2: ANS305 (placement) or ANS200 or MSP200 or MSP201 or MSP202	3	Career Learning Spine 3: ANS305 (placement) or or MSP200 or MSP201 or MSP202	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12

TOTAL CREDIT POINTS 72

Sample plan 2

Start Date: Semester 2 2024

Year 1 – 2024			Semester 2 Units	CP
			ANS100 Introduction to Agricultural Science	3
			CHE140 Fundamentals of Chemistry (or elective)	3
			MAS183 Statistical data analysis	3
			BMS107 Foundations of Vertebrate Form & Function	3
			Summer Units	CP
		Total	12	
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ANS102 Introduction to the Animal Body	3	ANS221 Animal Structure and Function	3
	BIO152 Cell Biology	3	AH Specified Elective 1: VET211 Vet Micro	3
	Pre-req BIO103 Environmental Biology	3	AH Specified Elective 2: VET278 Vet Parasitology	3
	Career learning spine 1: ANS305 (placement) or MSP100	3	BIO244 Animal Diversity	3
	Winter Units	CP	Summer Units	CP
Total		12	Total 12	
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	VET272 Comparative Mammalian Biochemistry	3	AH Specified Elective 3: VET392 One Health Or Career Learning Spine 3: ANS305 (placement) or MSP200 or MSP202	3
	ANS313 Pathology & Diseases of Production Animals	3	Pre-req ENV241 Ecology	3
	BIO375 Conservation Biology	3	BIO257 Australian Biodiversity	3
	Career Learning Spine 2: ANS305 (placement) or ANS200 or MSP200 or MSP201 or MSP202	3	BIO376 Wildlife Biology	3
	Winter Units	CP	Summer Units	CP
Total		12	Total 12	
Year 4 - 2027	Semester 1 Units	CP		
	BIO356 Genetics and Evolution	3		
	BIO245 Plant Ev, Rad and Adapt	3		
	CWB Elective: ENV328 or ENV278 or ECS200	3		
	AH Specified Elective 3: VET380 Veterinary Nutrition and Toxicology Or Career Learning Spine 3: ANS305 (placement) or ANS200 or MSP200 or MSP201 or MSP202	3		
	Winter Units	CP		
Total		12		

TOTAL CREDIT POINTS 72