Course Plans 2022-2023 B1391 Bachelor of Agricultural Science

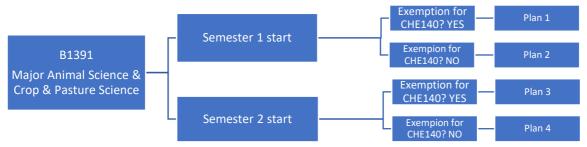
Double major Animal Science & Crop & Pasture Science - 72 credit points

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Completing Your Course Plan

Step 1: Choose the correct course plan template



Step 2: Course Core Units

Students must complete (or be exempt from) the following units: BSC100, MAS180, 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.

Step 3: Animal Science Major

Students must complete the following units: BMS107, ANS101, VET272, ANS230, ANS221, VET380, ANS333, ANS337

Step 4: Crop and Pasture Science Major

Students must complete the following units: ANS105, ENV243, ANS207, ANS208, ANS309, ANS311, ANS312 Plus one of the following CPS Major Specified Electives: ENV303, BIO282, BIO257, MAS223, BIO246

Step 5. Career Learning Spine

Students must complete **THREE** career learning spine units:

MSP100 Career Learning: Managing Your Career -3 points (MURDOCH: S1-external, S2-external, SUM-external). NOTE – MSP100 ideally completed before specified electives

Plus select **TWO** from the following list of Career Learning Spine Specified Electives:

- MSP200 Building Enterprise Skills 3 pts (MURDOCH: S1-external, S2-external)
- MSP201 Real World Learning 3 pts (MURDOCH: S1-external, S2-external, SUM-external, W-external)
 Note: Students may be able to do 2x MSP201
- MSP202 The Search for Everything: Data analytics 3 pts (MURDOCH: S1-external, S1-internal, S2-external, S2-internal)
- ANS302 Farm Placement 3 pts (MURDOCH: Y-placement) NOTE- students should commence ANS302 in S1
- **ANS303** Industry Tour 3 pts (MURDOCH: S2-internal) *Note subject to availability and available to year 3 students only*
- ANSxxx Advanced Agricultural Skills 3 pts (MURDOCH: S1-external, S2-external, SUM-external, W-external)
- VLS302 Professional Placements in Veterinary and Life Science (MURDOCH: S1-external, S2-external, SUM-external)

 Note subject to availability

Step 6: General Electives added to bring total credit points to 72 points (note maximum 30 credit points for Part 1 units)

Recommended electives:

 VET101 Sustainable and Ethical Animal Management) – 3pts (MURDOCH: S2-internal) - recommended for students applying for transfer to veterinary science

Note: A minor cannot be added/named on degree with double major at this point in time

Step 7: Confirm your course plan contains all required units using checklist (final page)

Course Plan 1 – Semester 1 entry with CHE140 exemption

Major Prerequisites: Chemistry Background

The following course plan applies for students that are granted an exemption for CHE140.

	Semester 1		Semester 2	
	BSC100 Building Blocks for Science Students	3	BIO152 Cell Biology	3
ear 1	MAS183 Statistical Data Analysis	3	BMS107 Foundations of Vertebrate Form & Function	3
	ANS105 Agricultural Science & Food Production	3	ANS101 Introduction to Livestock Science & Genetics	3
×	Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	3
		12		12
	VET272 Comparative Mammalian Biochemistry	3	ANS221 Animal Structure and Function	3
	ANS230 Animal Production Systems II	3	ANS207 Crop & Pasture Science	3
ır 2	ENV243 Water & Earth Science	3	ANS208 Crop Protection & Plant Biosecurity	3
Year	CPS Major Specified Elective or Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3
		12		12
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience	3
	ANS333 Animal Production Systems III	3	ANS311 Agricultural & Environmental Technologies	3
Year 3	ANS309 Agricultural Markets, Economics & Policy	3	ANS312 Advanced Crop & Pasture Science	3
	CPS Major Specified Elective or Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3
		12		12

Course Plan 2 – Semester 1 entry (no CHE140 exemption)

	Semester 1		Semester 2	
	BSC100 Building Blocks for Science Students	3	BIO152 Cell Biology	3
Year 1	MAS183 Statistical Data Analysis	3	BMS107 Foundations of Vertebrate Form & Function	3
	CHE140 Fundamentals of Chemistry	3	ANS101 Introduction to Livestock Science & Genetics	3
	ANS105 Agricultural Science & Food Production	3	Career Learning Spine or General Elective	3
		12		12
	VET272 Comparative Mammalian Biochemistry	3	ANS221 Animal Structure and Function	3
	ANS230 Animal Production Systems II	3	ANS207 Crop & Pasture Science	3
r 2	ENV243 Water & Earth Science	3	ANS208 Crop Protection & Plant Biosecurity	3
Year	CPS Major Specified Elective or Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3
		12		12
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience	3
	ANS333 Animal Production Systems III	3	ANS311 Agricultural & Environmental Technologies	3
Year 3	ANS309 Agricultural Markets, Economics & Policy	3	ANS312 Advanced Crop & Pasture Science	3
	CPS Major Specified Elective or Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3
		12		12

Course Plan 3 – Semester 2 entry with CHE140 exemption

Major Prerequisites: Chemistry Background

The following course plan applies for students that are granted an exemption for CHE140.

	Semester 1		Semester 2		
		*	ANS101 Introduction to Livestock Science & Genetics	3	
⊣			BMS107 Foundations of Vertebrate Form & Function	3	
Year			BSC100 Building Blocks for Science Students	3	
×			Career Learning Spine or General Elective	3	
				12	
	ANS105 Agricultural Science & Food Production	3	ANS221 Animal Structure and Function	3	
	MAS183 Statistical data analysis	3	ANS207 Crop & Pasture Science	3	
Year 2	BIO152 Cell Biology	3	ANS208 Crop Protection & Plant Biosecurity	3	
	Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3	
		12		12	
	VET272 Comparative Mammalian Biochemistry	3	ANS337 Animal Industry Experience	3	
	ANS230 Animal Production Systems II	3	ANS311 Agricultural & Environmental Technologies	3	
ar 3	ANS333 Animal Production Systems III	3	ANS312 Advanced Crop & Pasture Science	3	
Year	ENV243 Water & Earth Science	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3	
		12		12	
	ANS309 Agricultural Markets, Economics & Policy	3			
Year 4	VET380 Veterinary Nutrition & Animal Toxicology	3			
	CPS Major Specified Elective or Career Learning Spine or General Elective	3			
	Career Learning Spine or General Elective	3			
		12			

Course Plan 4 – Semester 2 entry (no CHE140 exemption)

Semester 1		Semester 2		
		ANS101 Introduction to Livestock Science & Genetics	3	
		CHE140 Fundamentals of Chemistry	3	
		BMS107 Foundations of Vertebrate Form & Function	3	
		BSC100 Building Blocks for Science Students	3	
			12	
ANS105 Agricultural Science & Food Production	3	ANS221 Animal Structure and Function	3	
MAS183 Statistical data analysis	3	ANS207 Crop & Pasture Science	3	
BIO152 Cell Biology	3	ANS208 Crop Protection & Plant Biosecurity	3	
Career Learning Spine or General Elective	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3	
	12		12	
VET272 Comparative Mammalian Biochemistry	3	ANS337 Animal Industry Experience	3	
ANS230 Animal Production Systems II	3	ANS311 Agricultural & Environmental Technologies	3	
ANS333 Animal Production Systems III	3	ANS312 Advanced Crop & Pasture Science	3	
ENV243 Water & Earth Science	3	CPS Major Specified Elective or Career Learning Spine or General Elective	3	
	12		12	
ANS309 Agricultural Markets, Economics & Policy	3			
VET380 Veterinary Nutrition & Animal Toxicology	3			
CPS Major Specified Elective or Career Learning Spine Elective or General Elective	3			
Career Learning Spine or General Elective	3			
	12			

B1391 Course Plan Checklist

B1391 Course Requirements	
Units total 72 credit points	
Career spine 1: MSP100	
Career spine 2: specified elective	
Career spine 3: specified elective	
Core: BSC100	
Core: MAS183	
Core: CHE140	
Core: BIO152	
At least 1 major: animal science/animal health/crop and pasture science	

Major: Animal Science MJ-ANS

Vertebrate Form and Function	
Intro to Livestock Science & Genetics	
Comparative Mammalian Biochemistry	
Animal Production Systems II	
Animal Structure and Function	
Veterinary Nutrition and Animal Toxicology	
Animal Production Systems III	
Advanced Animal Production	
	Intro to Livestock Science & Genetics Comparative Mammalian Biochemistry Animal Production Systems II Animal Structure and Function Veterinary Nutrition and Animal Toxicology Animal Production Systems III

Major: Crop & Pasture Science MJ-CPS

ANS105	Ag Science and Food Protection	
ENV243	Water and Earth Science	
ANS207	Crop & Pasture Science	
ANS208	Crop Protection & Plant Biosecurity	
ANS309	Agricultural Markets, Economics & Policy	
ANS311	Agricultural & Environmental Technologies	
ANS312	Advanced Crop & Pasture Science	
	One CPS major specified elective: ENV303, BIO282, BIO257, MAS223, BIO246	

Disclaimer: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online Handbook (https://handbook.murdoch.edu.au/). Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course