Course Plan 2022-2023

B1391 Bachelor of Agricultural Science
Animal Science major - 72 credit points

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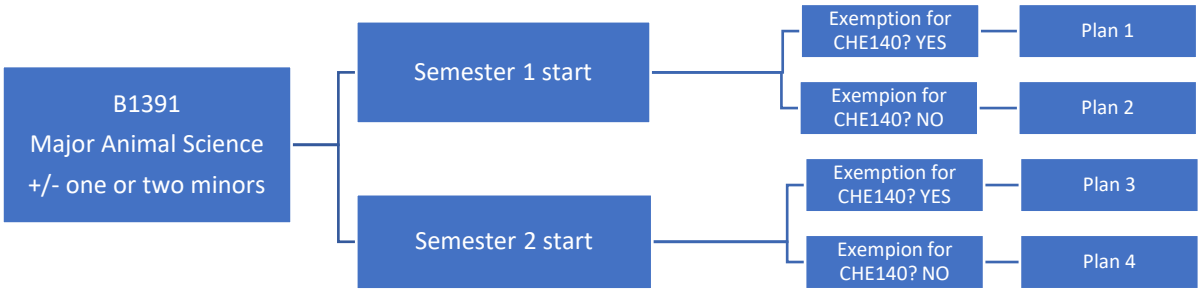
Completing Your Course Plan

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: 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 – ideally MSP100 is completed before Career Learning Spine 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, Y-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 Placements – 3 pts (MURDOCH: Y-placement) *Note: Students should commence ANS302 in Semester 1*
- **ANS303** Industry Tour – 3 pts *MSP201* (MURDOCH: S2-internal) *Note - subject to availability and available to year 3 students only*
- **ANSxxx** Advanced Agricultural Skills (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 5: General Electives added to bring total credit points to 72 points

- Select general electives to bring total credit points to 72 points.
- The timing and type of unit is flexible with only restriction that no more than 30 credit points can come from Part 1 units.
- "Extra" career learning spine units may be counted as general electives
- NOTE - elective slots can be used to complete one or two minors

Recommended general electives:

- **ANS102** Introduction to Animal Body – 3pts (MURDOCH: S1-internal)
- **VET101** Sustainable and Ethical Animal Management – 3pts (MURDOCH: S2-internal) - *highly recommended for students applying for transfer to veterinary science*
- **VET380** Veterinary Nutrition and Animal Toxicology – 3 pts (MURDOCH: S1-internal)
- **ANS363** Applied Animal Agriculture – 3 pts (MURDOCH: S1-internal)#
- **ANS364** Applied Animal Breeding – 3 pts (MURDOCH: S2-internal)#

- **ANS365** Equine Physiology and Behaviour – 3 pts (MURDOCH: S1-internal)*
- **ANS366** Equine Nutrition and Health – 3pts (MURDOCH: S2-internal)*

*Completion of ANS365 and ANS366 = eligibility for Equine Science Minor (MN-EQUINE)
#Completion of ANS363 and ANS364 = eligibility for Applied Animal Production minor (MN-ANMP)

Other suggested minors: Molecular Biology (MN-MOLB), Wildlife Conservation (MN-WLC), Applied Statistics (MN-APST)

Step 7: Confirm your course plan contains all required units using checklist

B1391 Course Plan Checklist

B1391 Course Requirements	
Units total **72 credit points**	
Career Learning Spine 1: MSP100	
Career Learning Spine 2: specified elective	
Career Learning 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

BMS107	Vertebrate Form and Function	
ANS101	Intro to Livestock Science & Genetics	
VET272	Comparative Mammalian Biochemistry	
ANS230	Animal Production Systems II	
ANS221	Animal Structure and Function	
VET380	Veterinary Nutrition and Animal Toxicology	
ANS333	Animal Production Systems III	
ANS337	Advanced Animal Production	

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

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	
Year 1	**BSC100** Building Blocks for Science Students	**3**	**BIO152** Cell Biology	**3**
	MAS183 Statistical data analysis	**3**	**BMS107** Foundations of Vertebrate Form & Function	**3**
	Career Learning Spine or General Elective	**3**	**ANS101** Introduction to Livestock Science & Genetics	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
		12		**12**
Year 2	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS221** Animal Structure and Function	**3**
	ANS230 Animal Production Systems II	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
		12		**12**
Year 3	**VET380** Veterinary Nutrition & Animal Toxicology	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
		12		**12**

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

	Semester 1		Semester 2	
Year 1	**BSC100** Building Blocks for Science Students	**3**	**BIO152** Cell Biology	**3**
	MAS183 Statistical data analysis	**3**	**BMS107** Foundations of Vertebrate Form & Function	**3**
	CHE140 Fundamentals of Chemistry	**3**	**ANS101** Introduction to Livestock Science & Genetics	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
		12		**12**
Year 2	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS221** Animal Structure and Function	**3**
	ANS230 Animal Production Systems II	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
		12		**12**
Year 3	**VET380** Veterinary Nutrition & Animal Toxicology	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	Career Learning Spine or General Elective	**3**
	Career Learning Spine or General Elective	**3**	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	
Year 1			**BSC100** Building Blocks for Science Students	**3**
			BMS107 Foundations of Vertebrate Form & Function	**3**
			ANS101 Introduction to Livestock Science & Genetics	**3**
			Career Spine or General Elective	**3**
				12
Year 2	**MAS183** Statistical data analysis	**3**	**ANS221** Animal Structure and Function	**3**
	BIO152 Cell Biology	**3**	Career Spine or General Elective	**3**
	ANS230 Animal Production Systems II	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
		12		**12**
Year 3	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
		12		**12**
Year 4	**VET380** Veterinary Nutrition & Animal Toxicology	**3**		
	Career Spine or General Elective	**3**		
	Career Spine or General Elective	**3**		
	Career Spine or General Elective	**3**		
		12		

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

	Semester 1		Semester 2	
Year 1			**BSC100** Building Blocks for Science Students	**3**
			CHE140 Fundamentals of Chemistry	**3**
			BMS107 Foundations of Vertebrate Form & Function	**3**
			ANS101 Introduction to Livestock Science & Genetics	**3**
				12
Year 2	**MAS183** Statistical data analysis	**3**	**ANS221** Animal Structure and Function	**3**
	BIO152 Cell Biology	**3**	Career Spine or General Elective	**3**
	ANS230 Animal Production Systems II	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
		12		**12**
Year 3	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
	Career Spine or General Elective	**3**	Career Spine or General Elective	**3**
		12		**12**
Year 4	**VET380** Veterinary Nutrition & Animal Toxicology	**3**		
	Career Spine or General Elective	**3**		
	Career Spine or General Elective	**3**		
	Career Spine or General Elective	**3**		
		12		