Course Plans 2022-2023
B1391 Bachelor of Agricultural Science

Double major Animal Science & Conservation & Wildlife Biology - 72 credit points

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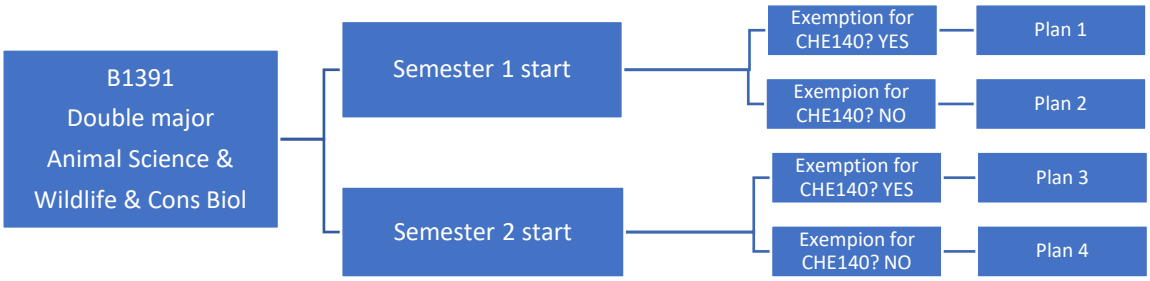
Completing Your Course Plan

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, ENV241**

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: Conservation & Wildlife Biology Major
Students must complete the following units: **BIO152, ENV102, BIO257, BIO375, BIO356, BIO376**
Plus **TWO** from the following: **ENV328, BIO245, BIO244**

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 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 or MSP201 alternatives*
- **ANS302** Farm Placement – 3 pts *Alternative to MSP201* (MURDOCH: Y-placement) *Note: Students should commence ANS302 in Semester 1*
- **ANS303** Industry Tour – 3 pts *Alternative to MSP201* (MURDOCH: S2-internal) *Note - subject to availability and available to year 3 or year 4 students only*
- **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

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

Suggested general electives:

- **VET101** Sustainable and Ethical Animal Management) – 3pts (MURDOCH: S2-internal) - *recommended for students applying for transfer to veterinary science*
- "Unused" CWB major electives can be used as general electives: **ENV328, BIO245, BIO244**
- **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)

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 the checklist

B1391 Course Plan Checklist

B1391 Course Requirements	
Units total 72 credit points	
Core: BSC100	
Core: MAS183	
Core: CHE140	
Core: BIO152	
Core: ENV241	
Career Learning Spine 1: MSP100	
Career Learning Spine 2: specified elective (MSP200 or MSP201 or VLS302)	
Career Learning Spine 3: specified elective (MSP200 or MSP201 or VLS302)	
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	

Major: Conservation & Wildlife Biology

BIO152	Cell Biology	
ENV102	Foundations of the Environment	
BIO257	Australian Biodiversity	
BIO375	Conservation Biology	
BIO356	Genetics and Evolution	
BIO376	Wildlife Biology	
	CWB major specified elective 1: ENV328, BIO245, BIO244	
	CWB major specified elective 2: ENV328, BIO245, BIO244	

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**
	BIO103 Intro to Environmental Biology	**3**	**ANS101** Introduction to Livestock Science & Genetics	**3**
	Career Learning Spine or General Elective	**3**	**ENV102** Foundations of the Environment	**3**
		12		**12**
Year 2	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS221** Animal Structure and Function	**3**
	ANS230 Animal Production Systems II	**3**	**BIO257** Australian Biodiversity	**3**
	CWB elective 1 (BIO245 or ENV328)	**3**	**ENV241** Ecology	**3**
	BIO356 Genetics & Evolution	**3**	**CWB elective 2** (BIO244) or 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**	**BIO376** Wildlife Biology	**3**
	BIO375 Conservation Biology	**3**	**CWB elective 2** (BIO244) or Career Learning Spine or General Elective	**3**
	CWB elective 2 (BIO245 or ENV328) or Career Spine or General Elective	**3**	Career 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**
	BIO103 Intro to Environmental Biology	**3**	**ENV102** Foundations of the Environment	**3**
		12		**12**
Year 2	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS221** Animal Structure and Function	**3**
	ANS230 Animal Production Systems II	**3**	**BIO257** Australian Biodiversity	**3**
	CWB elective 1 (BIO245 or ENV328) or Career Learning Spine	**3**	**ENV241** Ecology	**3**
	BIO356 Genetics & Evolution	**3**	**CWB elective 2** (BIO244) or Career Learning Spine	**3**
		12		**12**
Year 3	**VET380** Veterinary Nutrition & Animal Toxicology	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	**CWB elective 2** (BIO244) or Career Learning Spine	**3**
	BIO375 Conservation Biology	**3**	**BIO376** Wildlife Biology	**3**
	CWB elective 2 (BIO245 or ENV328) or Career Spine	**3**	Career Spine	**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			**BIO152** Cell Biology	**3**
			BMS107 Foundations of Vertebrate Form & Function	**3**
			ENV102 Foundations of the Environment	**3**
			ANS101 Intro to Livestock Science & Genetics	**3**
				12
Year 2	**BSC100** Building Blocks for Science Students	**3**	**ANS221** Animal Structure and Function	**3**
	MAS183 Statistical Data Analysis	**3**	**ENV241** Ecology	**3**
	ANS230 Animal Production Systems II	**3**	**BIO257** Australian Biodiversity	**3**
	BIO103 Intro to Environmental Biology	**3**	Career Learning 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**	**CWB elective 2** (BIO244) or Career Spine or General elective	**3**
	BIO375 Conservation Biology	**3**	**BIO376** Wildlife Biology	**3**
	BIO356 Genetics & Evolution	**3**	Career Learning Spine or General Elective	**3**
		12		**12**
Year 4	**VET380** Veterinary Nutrition & Animal Toxicology	**3**		
	CWB elective 1 (BIO245 or ENV328) or Career Spine	**3**		
	CWB elective 2 (BIO245 or ENV328) or Career 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	
Year 1			**CHE140** Fundamentals of Chemistry	**3**
			BMS107 Foundations of Vertebrate Form & Function	**3**
			ENV102 Foundations of the Environment	**3**
			ANS101 Intro to Livestock Science & Genetics	**3**
				12
Year 2	**BSC100** Building Blocks for Science Students	**3**	**MAS183** Statistical Data Analysis	**3**
	BIO152 Cell Biology	**3**	**ANS221** Animal Structure and Function	**3**
	ANS230 Animal Production Systems II	**3**	**ENV241** Ecology	**3**
	BIO103 Intro to Environmental Biology	**3**	**BIO257** Australian Biodiversity	**3**
		12		**12**
Year 3	**VET272** Comparative Mammalian Biochemistry	**3**	**ANS337** Animal Industry Experience	**3**
	ANS333 Animal Production Systems III	**3**	**BIO376** Wildlife Biology	**3**
	BIO375 Conservation Biology	**3**	**CWB elective 2** (BIO244) or Career Learning Spine	**3**
	BIO356 Genetics & Evolution	**3**	Career Learning Spine	**3**
		12		**12**
Year 4	**VET380** Veterinary Nutrition & Animal Toxicology	**3**		
	CWB elective 1 (BIO245 or ENV328) or Career Learning Spine	**3**		
	CWB elective 2 (BIO245 or ENV328) or Career Learning Spine	**3**		
	Career Learning Spine	**3**		
		12		

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.