

Course Plan 2022-2023

B1391 Bachelor of Agricultural Science

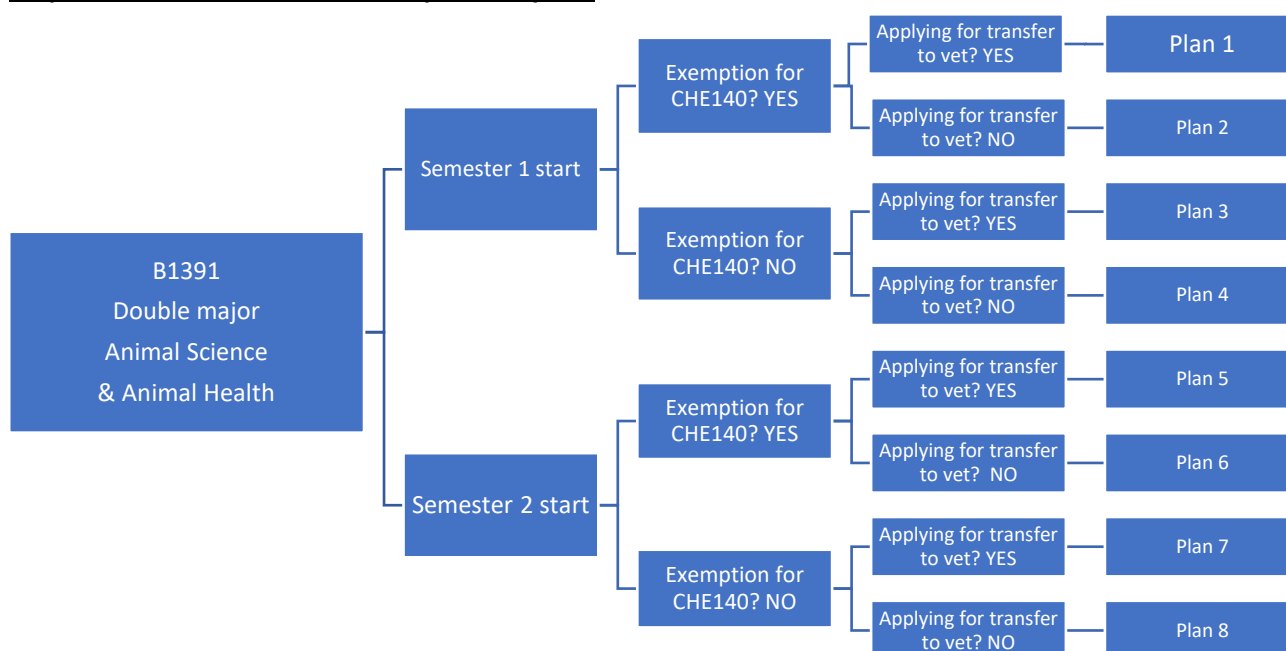
Double major Animal Science & Animal Health major - 72 credit points

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How to build 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: Animal Health Major

Students must complete the following units: **BMS107, ANS102, VET272, ANS221, VET211, VET278, ANS313, VET392**

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 – 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 Placement – 3 pts (MURDOCH: Y-placement) *Note: Students should commence ANS302 in Sem 1*
- **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) *Note: Students may be able to do 2x ANSxxx*
- **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

Select **FOUR** general electives (or **FIVE** general electives if exemption for CHE140) 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 used as general electives.

Recommended general electives:

- **VET101** Sustainable and Ethical Animal Management) – 3pts (MURDOCH: S2-internal) *Note - recommended unit for students applying for transfer to Veterinary Science*
- **ANS301** International Study Tour Opportunities – 3 pts (MURDOCH: S2N-internal) *Note - subject to availability*
- **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 checklist on following page

B1391 Course Plan Checklist

B1391 Course Requirements	
Units total 72 credit points	
Core: BSC100	
Core: MAS183	
Core: CHE140	
Core: BIO152	
Career Spine 1: MSP100	
Career Spine 2: specified elective	
Career Spine 3: specified elective	
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: Animal Health MJ-ANH

ANS102	Intro to Animal Body	
BMS107	Vertebrate Form and Function	
VET272	Comparative Mammalian Biochemistry	
ANS221	Animal Structure and Function	
VET211	Veterinary Microbiology	
VET278	Veterinary Parasitology	
ANS313	Pathology and Diseases of Production Animals	
VET392	One Health	

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
Students intending to apply for transfer to veterinary science

Major Prerequisites: Chemistry Background				
<ul style="list-style-type: none"> The following course plan applies for students that are <u>granted an exemption for CHE140</u>. 				
Semester 1			Semester 2	
Year 1	BSC100 Building Blocks for Science Students	3	ANS101 Introduction to Livestock Science & Genetics	3
	ANS102 Introduction to the Animal Body	3	BIO152 Cell Biology	3
	MAS183 Statistical data analysis	3	BMS107 Foundations of Vertebrate Form & Function	3
	Career Learning Spine or General Elective	3	General elective (recommend VET101*)	3
		12		12
Year 2	VET272 Comparative Mammalian Biochemistry	3	ANS221 Animal Structure and Function	3
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	Career Learning Spine or General Elective**	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	3
		12		12
Year 3	ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	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
		12		12

*VET101 highly recommended for students aiming to transfer into Year 2 of the veterinary program

**Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1

Course Plan 2 – Semester 1 entry with CHE140 exemption

Major Prerequisites: Chemistry Background				
<ul style="list-style-type: none"> The following course plan applies for students that are <u>granted an exemption for CHE140</u>. 				
Semester 1			Semester 2	
Year 1	BSC100 Building Blocks for Science Students	3	ANS101 Introduction to Livestock Science & Genetics	3
	ANS102 Introduction to the Animal Body	3	BIO152 Cell Biology	3
	MAS183 Statistical data analysis	3	BMS107 Foundations of Vertebrate Form & Function	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	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	Career Learning Spine or General Elective*	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	3
		12		12
Year 3	ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	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
		12		12

*Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1

Course Plan 3 – Semester 1 entry (no CHE140 exemption)
Students intending to apply for transfer to veterinary science

Semester 1		Semester 2	
BSC100 Building Blocks for Science Students	3	ANS101 Introduction to Livestock Science & Genetics	3
ANS102 Introduction to the Animal Body	3	BIO152 Cell Biology	3
MAS183 Statistical data analysis	3	BMS107 Foundations of Vertebrate Form & Function	3
CHE140 Fundamentals of Chemistry	3	General elective (recommend VET101 *)	3
	12		12
VET272 Comparative Mammalian Biochemistry	3	ANS221 Animal Structure and Function	3
ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
Career Learning Spine or General Elective**	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	3
	12		12
ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	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
	12		12

*VET101 highly recommended for students aiming to transfer into Year 2 of the veterinary program

**Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1

Course Plan 4 – Semester 1 entry (no CHE140 exemption)

Semester 1		Semester 2	
BSC100 Building Blocks for Science Students	3	ANS101 Introduction to Livestock Science & Genetics	3
MAS183 Statistical data analysis	3	BIO152 Cell Biology	3
CHE140 Fundamentals of Chemistry	3	BMS107 Foundations of Vertebrate Form & Function	3
ANS102 Introduction to the Animal Body	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	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
Career Learning Spine or General Elective*	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	3
	12		12
ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	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
	12		12

*Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1

Course Plan 5 – Semester 2 entry with CHE140 exemption
Students intending to apply for transfer to veterinary science

Major Prerequisites: Chemistry Background				
The following course plan applies for students that are <u>granted an exemption for CHE140</u> .				
Semester 1			Semester 2	
Year 1			BSC100 Building Blocks for Science Students*	3
			BIO152 Cell Biology	3
			BMS107 Foundations of Vertebrate Form & Function	3
			ANS101 Introduction to Livestock Science & Genetics	3
				12
Year 2	ANS102 Introduction to the Animal Body	3	ANS221 Animal Structure and Function	3
	MAS183 Statistical data analysis	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	VET272 Comparative Mammalian Biochemistry	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS230 Animal Production Systems II	3	General elective (recommend VET101)*	3
		12		12
Year 3	ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	3
	ANS333 Animal Production Systems III	3	ANS337 Animal Industry Experience	3
	VET380 Veterinary Nutrition & Animal Toxicology	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 4	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		

*VET101 highly recommended for students aiming to transfer into Year 2 of the veterinary program

**Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 of year 2 or year 3

Course Plan 6 – Semester 2 entry with CHE140 exemption

Major Prerequisites: Chemistry Background				
The following course plan applies for students that are <u>granted an exemption for CHE140</u> .				
Semester 1			Semester 2	
Year 1			BSC100 Building Blocks for Science Students*	3
			BIO152 Cell Biology	3
			BMS107 Foundations of Vertebrate Form & Function	3
			ANS101 Introduction to Livestock Science & Genetics	3
				12
Year 2	ANS102 Introduction to the Animal Body	3	ANS221 Animal Structure and Function	3
	MAS183 Statistical data analysis	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	VET272 Comparative Mammalian Biochemistry	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS230 Animal Production Systems II	3	Career Learning Spine or General Elective	3
		12		12
Year 3	ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	3
	ANS333 Animal Production Systems III	3	ANS337 Animal Industry Experience	3
	VET380 Veterinary Nutrition & Animal Toxicology	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 4	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		

*Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 of year 2 or year 3

Course Plan 7 – Semester 2 entry (no CHE140 exemption)
Students intending to apply for transfer to veterinary science

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	ANS102 Introduction to the Animal Body	3	ANS221 Animal Structure and Function	3
	MAS183 Statistical data analysis	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	BIO152 Cell Biology	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS230 Animal Production Systems II	3	General Elective (recommend VET101)*	3
		12		12
Year 3	VET272 Comparative Mammalian Biochemistry	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
Year 4	ANS313 Pathology and Diseases of Production Animals	3	VET392 One Health	3
	VET380 Veterinary Nutrition & Animal Toxicology	3		
	Career Learning Spine or General Elective	3		
		9		3

*VET101 highly recommended for students aiming to transfer into Year 2 of the veterinary program

*Students wanting to do ANS302 Farm Placements (Y enrolment) should enrol in semester

Course Plan 8 – 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	ANS102 Introduction to the Animal Body	3	ANS221 Animal Structure and Function	3
	MAS183 Statistical data analysis	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	BIO152 Cell Biology	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS230 Animal Production Systems II	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	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 4	ANS313 Pathology and Diseases of Production Animals	3	VET392 One Health	3
	VET380 Veterinary Nutrition & Animal Toxicology	3		
	Career Learning Spine or General Elective	3		
		9		3

*Students wanting to do ANS302 Farm Placements (Y enrolment) should enrol in semester 1 of year 2 or year 3 (or year 4 if doing VET392 in semester 2)