

Academic Chairs:

- Animal Science: Professor Andrew Thompson Andrew.Thompson@murdoch.edu.au
- Animal Science: Associate Professor Serina Hancock S.Hancock@murdoch.edu.au
- Animal Health : Associate Professor Caroline Jacobson C.Jacobson@murdoch.edu.au
- Animal Health : Associate Professor Fiona Anderson F.Anderson@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 Science Major

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

Animal Health Major

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

Plus three units from this list: **VET211, VET278, VET380, VET392, ANS300**

Career Learning Spine

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

Highly recommended: **ANS301, ANS302, ANS303, ANS305 (can be repeated for credit), ANS200**

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

General Electives added to bring total credit points to 72 points

Select general electives to bring total credit points to 72 points

- Typically **FOUR** general electives, or
- **FIVE** general electives if awarded exemption for CHE140

The timing and type of general elective units is flexible. The only restriction on general electives is that no more than 30 credit points can come from Part 1 units (i.e. you cannot count more than ten 100- level units for completion of the degree)

The general elective slot can be used to complete a minor. At this point in time, a minor will not be named on the degree (certificate) for students that are completing a double major. This is a university policy and is under review.

Bachelor of Agricultural Science (Animal Science and Animal Health)

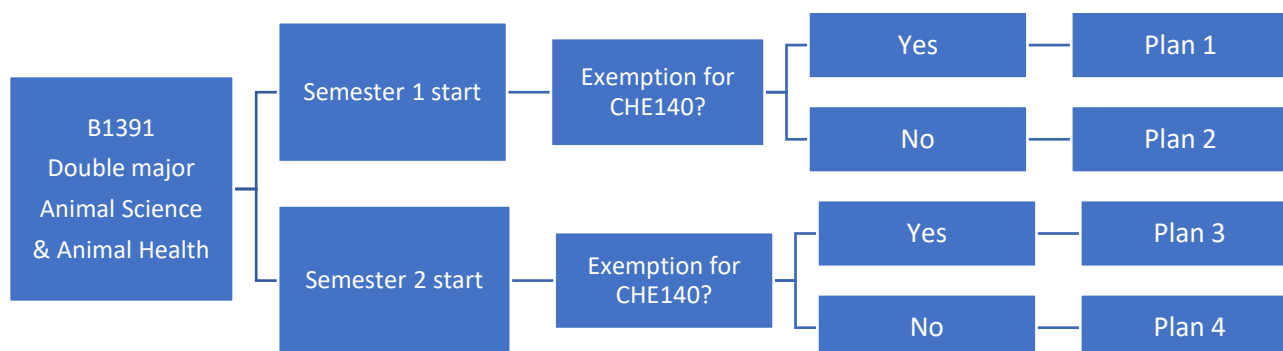
Recommended general electives:

- **VET101** Sustainable and Ethical Animal Management) – 3pts (S2) **Note - STRONGLY recommended unit for students applying for transfer to Veterinary Science**
- **ANS363** Applied Animal Agriculture – 3 pts (S2 or year)
- **ANS364** Applied Animal Breeding – 3 pts (S1 or year)
- **ANS365** Equine Physiology and Behaviour – 3 pts (S1)
- **ANS366** Equine Health and Performance – 3pts (S2)
- **ANS300** Applied Livestock Health Management – 3 pts (S2)
- **ANS309** Agricultural Markets, Economics and Policy – 3 pts (S1)
- **ANS207** Crop and Pasture Science – 3 pts (S2)
- **ANS208** Crop Protection and Biosecurity – 3 pts (S2)

“Extra” career learning spine units may be used as general electives (ie can count towards the career spine OR general elective, but cannot be double counted against both unless completing the unit twice for credit):

- **ANS301** International Study Tour Opportunities – 3 pts (S2 – with tour usually conducted in winter break)
Note - subject to availability
- **ANS302** Farm Placement – 3 pts (Year – commence in S1) *Note: STRONGLY RECOMMENDED FOR STUDENTS INTENDING ON APPLYING FOR TRANSFER TO VETERINARY SCIENCE (advanced standing VET300). Students should commence ANS302 in Sem 1*
- **ANS303** Livestock Industry Career Readiness – 3 pts (S2)
- **ANS305** Advanced Agricultural Skills – 3 pts (MURDOCH: S1, S2, Summer, Winter) *Note: Students may be able to do repeat ANS305 for credit*
- **ANS200** International Field Work in Agricultural and Environmental Sciences – Thailand – 3 pts. S1 but tour completed in summer break. Subject to availability.

Choose the correct course plan template



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 November 2023.

PLAN 1: exemption for CHE140 (chemistry)

Start Date: Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ANS100 Introduction to Agricultural Science	3	ANS101 Introduction to Livestock Science & Genetics	3
	ANS102 Introduction to the Animal Body	3	BIO152 Cell Biology ^A	3
	MAS183 Statistical data analysis	3	BMS107 Foundations of Vertebrate Form & Function	3
	BIO152 or general elective ^A	3	General elective ^B	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
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	Career Learning Spine or General Elective ^C	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	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	VET392 One Health Or ANS300 Applied Livestock Health Management	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 ^C	3	Career Learning Spine or General Elective	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12

TOTAL CREDIT POINTS 72

^A 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.

- Students with a strong science background can consider completing BIO152 in S1, then ANS366 (S2) or ANS305 (summer)
- Otherwise, this slot can be used for a general elective or spine unit

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

^C Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 (highly recommended for students applying for transfer to veterinary science)

PLAN 2: No exemption for CHE140 (chemistry)

Start Date: Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ANS100 Introduction to Agricultural Science	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 ^A	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
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	Career Learning Spine or General Elective B	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	Career Learning Spine or General Elective	3	Career Learning Spine or General Elective	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	VET392 One Health Or ANS300 Applied Livestock Health Management	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 ^B	3	Career Learning Spine or General Elective	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12

TOTAL CREDIT POINTS 72

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

^B Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 (ANS302 is highly recommended for students applying for transfer to veterinary science)

PLAN 3: exemption for CHE140 (chemistry)

Start Date: Semester 2 2024

Year 1 – 2024			Semester 2 Units	CP
			ANS100 Introduction to Agricultural Science	3
			BIO152 Cell Biology	3
			BMS107 Foundations of Vertebrate Form & Function	3
			ANS101 Introduction to Livestock Science & Genetics	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
	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 or career learning spine ^A	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	VET392 One Health Or	3
	ANS333 Animal Production Systems III	3	ANS300 Applied Livestock Health Management	3
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience	3
	Career Learning Spine or General Elective ^B	3	Career Learning Spine or General Elective	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 4 - 2027	Semester 1 Units	CP		
	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		
	Winter Units	CP		
Total	12			

TOTAL CREDIT POINTS 72

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

^B Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 (highly recommended for students applying for transfer to veterinary science)

PLAN 4: No exemption for CHE140 (chemistry)

Start Date: Semester 2 2024

Year 1 – 20			Semester 2 Units	CP
			ANS100 Introduction to Agricultural Science	3
			CHE140 Fundamentals of Chemistry	3
			BMS107 Foundations of Vertebrate Form & Function	3
			ANS101 Introduction to Livestock Science & Genetics	3
			Summer Units	CP
		Total	12	
Year 2 - 20	Semester 1 Units	CP	Semester 2 Units	CP
	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 or career learning spine ^A	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 3 - 20	Semester 1 Units	CP	Semester 2 Units	CP
	VET272 Comparative Mammalian Biochemistry	3	VET392 One Health Or ANS300 Applied Livestock Health Management	3
	ANS333 Animal Production Systems III	3	ANS337 Animal Industry Experience	3
	ANS313 Pathology & Diseases of Production Animals	3	Career Learning Spine or General Elective	3
	Career Learning Spine or General Elective ^B	3	Career Learning Spine or General Elective	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 4 - 20	Semester 1 Units	CP		
	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		
	Winter Units	CP		
Total	12			

TOTAL CREDIT POINTS 12

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

^B Students wanting to do ANS302 Farm Placements (Y enrolment) should commence in semester 1 (highly recommended for students applying for transfer to veterinary science)

Example 1:

- **Exemption for CHE140** based on passing ATAR chemistry
- Interested in applying for transfer to veterinary studies (BSc/DVM) via Tertiary Pathway
- Interested in maximum hands-on learning and building relevant employability skills for careers working with livestock
- **Strong science background (biology, human biology) and skills in independent/self-directed learning**
- Interest in developing skills and knowledge with horses and other livestock

Start Date: Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ANS100 Introduction to Agricultural Science	3	ANS101 Introduction to Livestock Science & Genetics	3
	ANS102 Introduction to the Animal Body	3	BMS107 Foundations of Vertebrate Form & Function	3
	MAS183 Statistical data analysis	3	VET101 Sustainable and Ethical Animal Management (elective 1)	3
	BIO152 Cell Biology	3	ANS366 Equine Health & Performance (elective 2)	3
	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
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	ANS363 Equine Physiology and Behaviour (elective 3)	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS302 Farm placements (YEAR) (spine 1)	3	ANS363 Applied Animal Agriculture (elective 4)	3
	Total	12	Total	12
Year 3 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ANS313 Pathology & Diseases of Production Animals	3	VET392 One Health	3
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience (spine 2)	3
	ANS333 Animal Production Systems III	3	ANS303 Livestock Industry Career Readiness	3
	ANS364 Applied Animal Breeding (elective 5)	3	ANS301 Study tour opportunities Or ANS305 Advanced Agricultural Industry Skills	3
	Total	12	Total	12

TOTAL CREDIT POINTS 72

Example 2:

- **Exemption for CHE140** based on passing ATAR chemistry
- Interested in applying for veterinary studies (BSc/DVM) via Tertiary Pathway
- **Not a strong science background, or still developing skills in self-directed study**
- Interest in developing skills and knowledge with horses and other livestock
- Interested in maximum hands-on learning and building relevant employability skills

Start Date: Semester 1 2024

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2024	ANS100 Introduction to Agricultural Science	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
		3	VET101 Sustainable and Ethical Animal Management (elective 1)	3
	Winter Units	CP	Summer Units	CP
	ANS305 Advanced Agricultural Skills (Spine 1) ^A			
	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
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	ANS363 Equine Physiology and Behaviour (elective 2)	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS302 Farm placements (YEAR) (spine 2)	3	ANS363 Applied Animal Agriculture (elective 3)	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	VET392 One Health Or ANS300 Applied Livestock Health Management	3
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience	3
	ANS333 Animal Production Systems III	3	ANS301 Study tour opportunities Or ANS366 Equine Health and Performance (elective 5)	3
	ANS364 Applied Animal Breeding (elective 4)	3	ANS301 Study tour opportunities or ANS303 Livestock Industry Career Readiness (Spine 3)	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12

TOTAL CREDIT POINTS 72

^A ANS305 unit can be done in winter or summer (as well as S1 and S2) . Note there are restrictions on the type of placements that can be used for ANS305 if taking this unit before ANS101.

Example 3:

- No exemption for CHE140
- Interested in applying for transfer veterinary studies (BSc/DVM) via Tertiary Pathway
- Interested in maximum hands-on learning and building relevant employability skills for working with livestock
- Interest in developing skills and knowledge with horses and other livestock

Start Date:

Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	<i>ANS100 Introduction to Agricultural Science</i>	3	<i>ANS101 Introduction to Livestock Science & Genetics</i>	3
	<i>ANS102 Introduction to the Animal Body</i>	3	<i>BMS107 Foundations of Vertebrate Form & Function</i>	3
	<i>MAS183 Statistical Data Analysis</i>	3	<i>BIO152 Cell Biology</i>	3
	<i>CHE140 Fundamentals of Chemistry</i>	3	<i>VET101 Sustainable and Ethical Animal Management (elective 1)</i>	3
	Total	12	Total	12
Year 2 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
	<i>VET272 Comparative Mammalian Biochemistry</i>	3	<i>ANS221 Animal Structure and Function</i>	3
	<i>ANS230 Animal Production Systems II</i>	3	<i>VET211 Principals of Infectious Disease 1 – Veterinary Microbiology</i>	3
	<i>ANS363 Equine Physiology and Behaviour (elective 2)</i>	3	<i>VET278 Principals of Infectious Disease 2 – Veterinary Parasitology</i>	3
	<i>ANS302 Farm placements (YEAR) (spine 1)</i>	3	<i>ANS363 Applied Animal Agriculture (elective 3) Or ANS366 Equine Health and Performance</i>	3
	Total	12	Total	12
Year 3 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	<i>ANS313 Pathology & Diseases of Production Animals</i>	3	<i>VET392 One Health</i>	3
	<i>VET380 Veterinary Nutrition & Animal Toxicology</i>	3	<i>ANS337 Animal Industry Experience</i>	3
	<i>ANS333 Animal Production Systems III</i>	3	<i>ANS303 Livestock Industry Career Readiness (spine 2)</i>	3
	<i>ANS364 Applied Animal Breeding (elective 4)</i>	3	<i>ANS301 Study tour opportunities (spine 3) Or ANS305 Advanced Agricultural Industry Skills</i>	3
	Total	12	Total	12

TOTAL CREDIT POINTS 72

Example 4:

- No exemption for CHE140
- Not major focus on applying for veterinary studies (BSc/DVM) via Tertiary Pathway
- Interested in maximum hands-on learning and building relevant employability skills for working with livestock
- Interest in developing skills and knowledge with horses and other livestock

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ANS100 Introduction to Agricultural Science	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		
	Winter Units	CP	Summer Units	CP
			ANS305 Advanced Agricultural Skills (Spine 1) ^A	3
	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
	ANS230 Animal Production Systems II	3	VET211 Principals of Infectious Disease 1 – Veterinary Microbiology	3
	ANS363 Equine Physiology and Behaviour (elective 1)	3	VET278 Principals of Infectious Disease 2 – Veterinary Parasitology	3
	ANS302 Farm placements (YEAR) (spine 2)	3	ANS363 Applied Animal Agriculture (elective 2) Or ANS366 Equine Health and Performance	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	VET392 One Health Or ANS300 Applied Livestock Health Management	3
	VET380 Veterinary Nutrition & Animal Toxicology	3	ANS337 Animal Industry Experience	3
	ANS333 Animal Production Systems III	3	ANS301 Study tour opportunities (elective 4) Or ANS366 Equine Health and Performance	3
	ANS364 Applied Animal Breeding (elective 3)	3	ANS301 Study tour opportunities (spine 3) Or ANS303 Livestock Industry Career Readiness Or ANS305 Advanced Agricultural Industry Skills	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12

^A ANS305 can also be taken in summer/winter later in course depending on availability of the placement you want to complete

Pre-requisite checklist 2024

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

Major : Animal Science

Code	Name	Pre-req	Enrolment notes
ANS101	Introduction to Livestock Science & Genetics	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	
ANS230	Animal Production Systems II	ANS101	
ANS221	Animal Structure & Function	BIO152 BMS107	
ANS333	Animal Production Systems III	ANS221 ANS230	
VET380	Veterinary Nutrition & Animal Toxicology	VET272 ANS221	Concurrent enrolment with VET272 considered only under exceptional circumstances
ANS337	Advanced Animal Production	ANS333	

Major: Animal Health

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 knowledge 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

Bachelor of Agricultural Science (Animal Science and Animal Health)

Career Learning Spine

Code	Name	Pre-req	Enrolment notes
ANS301	Agricultural Study Tour Opportunities	TBA	Students will need to submit an application for enrolment, please contact Unit Coordinator.
ANS302	Farm Placements	ANS100/ANS101 Or ANS101 (2020-22)	
ANS303	Livestock Industry Career Readiness	ANS333	
ANS305	Advanced Agricultural Career Skills	ANS100/ANS101 Or ANS101 (2020-22)	Some 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
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.

Recommended electives

Code	Name	Pre-req	Enrolment notes
ANS363	Applied Animal Agriculture		Should have completed 24 credit points before enrolling in this unit
ANS364	Applied Animal Breeding		Should have completed 24 credit points before enrolling in this unit
ANS365	Equine Physiology & Behaviour	ANS102/BMS107	
ANS366	Equine Health and Performance	None	Prior completion of BMS107 (or equivalent) is recommended, but not essential.
ANS101	Introduction to Livestock Science & Genetics	None	
VET380	Veterinary Nutrition & Animal Toxicology	VET272 ANS221	Concurrent enrolment with VET272 considered only under exceptional circumstances
ANS313	Animal Pathology and Diseases	BIO152 ANS221	Recommended complete VET272 Veterinary Biochemistry as background knowledge where possible.
ENV243	Water & Earth Science	None	
ANS207	Crop & Pasture Science	CHE140	
ANS208	Crop Protection & Plant Biosecurity	ANS100	
ANS309	Agricultural Markets, Economics & Policy	None	
ANS311	Agricultural & Environmental Technologies	None	
ANS301	Agricultural Study Tour Opportunities	TBA	Students will need to submit an application for enrolment
ANS302	Farm Placements	ANS100/ANS101 Or ANS101 (2020-22)	
ANS303	Livestock Industry Career Readiness	ANS333	
ANS305	Advanced Agricultural Career Skills	ANS100/ANS101 Or ANS101 (2020-22)	Some 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

Bachelor of Agricultural Science (Animal Science and Animal Health)

Recommended minors (noting a minor can't be named on the degree in conjunction at this point – under review)

	Code	Name	Pre-req	Enrolment notes
Equine Science	BIO152	Cell Biology	CHE140	
	BMS107	Foundations of Vertebrate Form and Function	None	It is recommended that students complete BMS101 or ANS102 prior to enrolment.
	ANS365	Equine Physiology & Behaviour	ANS102/BMS107	
	ANS366	Equine Health and Performance	None	Prior completion of BMS107 (or equivalent) is recommended, but not essential.
Applied Animal Production	BIO152	Cell Biology	CHE140	Recommend completing 12 points prior to enrolment
	VET272	Veterinary Biochemistry	BIO152	
	ANS363	Applied Animal Agriculture		Should have completed 24 credit points before enrolling in this unit
	ANS364	Applied Animal Breeding		Should have completed 24 credit points before enrolling in this unit
Molecular Biology	BIO152	Cell Biology	CHE140	Recommend completing 12 points prior to enrolment
	BIO282	Molecular Biology	BIO152	
	BIO246	Microbiology	BIO152	
	BIO394	Genetic Engineering	BIO282	
Applied Statistics	MAS183	Statistical Data Analysis	None	
	MAS182	Intro Calculus with Applications	MAS164	
	MAS223	Applied Statistics	MAS183	
	MAS224	Biostatistics	MAS180/MAS183	
	MAS353	Statistical Design and Data Analysis	MAS222/MAS223/MAS224/MAS230/MAS278/MAS284	
Wildlife Conservation	BIO103	Environmental Biology	None	
	BIO375	Conservation Biology	ENV241	
	BIO376	Wildlife Biology	BIO375	
	ENV241	Ecology	BIO103/BIO180 MAS183	
Plant Biology	BIO245	Plant Evolution, Radiation and Adaptation	BIO103/BIO180	
	BIO103	Environmental Biology	None	
	BIO254	Marine Botany	BIO103/BIO180	
	BIO257	Australian Biodiversity	None	
	ENV334	Environmental Restoration	ENV241	