ANIMAL SCIENCE, TESTAMUR MAJOR (T054)

Western Sydney University Major Code: T054

Previous Code: MT3015.1

Available to students in other Western Sydney University programs?
No

As interactions with animals increase, so too does our need to effectively manage these populations. Animal scientists use scientific principles to solve problems associated with our relationship with and the management of animals in a changing world. In this major, you will develop a deep understanding of how we use animals for food, companionship and recreation by applying core principles ranging from nutrition and reproduction, through to behaviour and welfare. You will have access to diverse on-campus animal facilities including reptiles, native mammals, sheep, cattle and deer and off-campus organisations such as wildlife parks, zoos and farms. A variety of exciting career paths are available to graduates of this program, including international opportunities in the management of wildlife, companion animals and livestock.

NOTE: This major is available as an elective in Bachelor of Science 3754, and an elective major option in Bachelor of Medical Science 3755. See the related programs tab for more information.

Please note, the BSc Major Environmental Health T076, BSc Adv 3757, Bachelor of Science (Pathway to Teaching Primary/Secondary) 3756 & BMedSc Adv 3758, do not have sufficient Flexible space to accommodate a second/elective Major.

Location

Campus	Mode	Advice
Hawkesbury Campus	Internal	science@westernsydney.edu.au

Special Requirements

Students who opt to enrol in MT3015 Animal Science are strongly recommended to obtain a Q-Fever vaccination and Tetanus vaccination/booster. Students who cannot provide evidence of vaccination may be precluded from activities on the Farm, and/or internships with third parties

Recommended Sequence 2023

Select the link for your program below to see details of the major

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**
Spring session		
AGRI 1003	Animal Science	10
Choose one of		10
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**40**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
Choose two electives		20
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose two electives		20
	Credit Points	**40**
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
Choose one elective		10
	Credit Points	**40**
Spring session		
NATS 3017	Field Project 2	10
AGEN 3001	Animal Behaviour	10
Choose two electives		20
	Credit Points	**40**
	Total Credit Points	**240**

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Animal Science, given above.

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**

Spring session		
AGRI 1003	Animal Science	10
Choose one of		10
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**40**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
Choose two electives		20
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose two electives		20
	Credit Points	**40**
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
Choose one elective		10
	Credit Points	**40**
Spring session		
NATS 3017	Field Project 2	10
AGEN 3001	Animal Behaviour	10
Choose two electives		20
	Credit Points	**40**
	Total Credit Points	**240**

In addition, all students must complete a mandatory 40 credit point minor in Education Studies. Students must choose one of:

Education Studies – Primary Teaching, Minor (0296) (https://hbook.westernsydney.edu.au/majors-minors/education-studies--primary-teaching-minor/)

Or

Education Studies - Secondary Teaching, Minor (0267) (https://hbook.westernsydney.edu.au/majors-minors/education-studies-secondary-teaching-minor/)

Students must meet this requirement by choosing subjects from the selected Education Studies minor as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**
Spring session		
AGRI 1003	Animal Science	10
Choose one of		
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**30**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
NATS 2001	Advanced Science Project A	10
Choose one elective		10
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
NATS 2002	Advanced Science Project B	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose one elective		10
	Credit Points	**40**
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
NATS 3043	Advanced Science Research Project C	10
	Credit Points	**40**
Spring session		
NATS 3017	Field Project 2	10
AGEN 3001	Animal Behaviour	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
	Credit Points	**40**
	Total Credit Points	**230**

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time start-year intake

Subject	Title	Credit Points
Year 1: College Subjects		
Standard 3-term year		
Preparatory subject		
CHEM 0001	Chemistry (WSTC Prep)	10
Plus eight University-level units as follows		
BIOS 1014	Cell Biology (WSTC)	10
CHEM 1013	Essential Chemistry (WSTC)	10
NATS 1020	Scientific Literacy (WSTC)	10
CHEM 1009	Introductory Chemistry (WSTC)	10
BIOS 1003	Biodiversity (WSTC)	10
MATH 1027	Quantitative Thinking (WSTC)	10
NATS 1030	Human Anatomy and Physiology 2 (WSTC)	10
BIOS 1034	Management of Aquatic Environments (WSTC)	10
Total Credit Points		**90**

Course	Title	Credit Points
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
AGRI 1009	Wildlife Studies	10
Choose one elective		10
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
AGRI 1003	Animal Science	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose one elective		10
	Credit Points	**40**
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
Choose one elective		10
	Credit Points	**40**
Spring session		
NATS 3017	Field Project 2	10
AGEN 3001	Animal Behaviour	10
Choose two electives		20
	Credit Points	**40**
	Total Credit Points	**160**

Equivalent Subjects

The subjects listed below count towards completion of this Major for students who passed these subjects in 2021 or earlier.

AGRI 3008 - Animal Health, Ethics and Welfare, replaced by AGRI 3010 Animal Health and Welfare

Recommended Sequence 2024

Select the link for your program below to see details of the major

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**
Spring session		
AGRI 1003	Animal Science	10
Choose one of		10
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**40**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
Choose two electives		20
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose two electives		20
	Credit Points	**40**
Year 3		
1H session		
NATS 3055	Practicum 1	10
	Credit Points	**10**
Autumn session		
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
Choose one elective		10
	Credit Points	**30**
2H session		
NATS 3056	Practicum 2	10
	Credit Points	**10**
Spring session		
AGEN 3001	Animal Behaviour	10

Choose two electives		20
	Credit Points	**30**
	Total Credit Points	**240**

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Animal Science, given above.

In addition, all students must complete a mandatory 40 credit point minor in Education Studies. Students must choose one of:

Education Studies – Primary Teaching, Minor (0296) (https://hbook.westernsydney.edu.au/majors-minors/education-studies--primary-teaching-minor/)

Or

Education Studies - Secondary Teaching, Minor (0267) (https://hbook.westernsydney.edu.au/majors-minors/education-studies-secondary-teaching-minor/)

Students must meet this requirement by choosing subjects from the selected Education Studies minor as electives within their Bachelor of Science program.

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**
Spring session		
AGRI 1003	Animal Science	10
Choose one of		10
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**40**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
Choose two electives		20
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose two electives		20
	Credit Points	**40**
Year 3		
1H session		
NATS 3055	Practicum 1	10
	Credit Points	**10**
Autumn session		
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
Choose one elective		10
	Credit Points	**30**
2H session		
NATS 3056	Practicum 2	10
	Credit Points	**10**
Spring session		
AGEN 3001	Animal Behaviour	10
Choose two electives		20
	Credit Points	**30**
	Total Credit Points	**240**

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
AGRI 1009	Wildlife Studies	10
	Credit Points	**40**
Spring session		
AGRI 1003	Animal Science	10
Choose one of		
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one elective		10
	Credit Points	**30**
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
AGRI 1005	Human Animal Interactions	10
NATS 2001	Advanced Science Project A	10
Choose one elective		10
	Credit Points	**40**
Spring session		
AGRI 2004	Animal Reproduction	10
NATS 2002	Advanced Science Project B	10

Choose one of		10
NATS 3044	Complex Case Studies in Science	
NATS 3045	Work Internship for Science Professionals	
Choose one elective		10
	Credit Points	**40**
Year 3		
1H session		
NATS 3055	Practicum 1	10
	Credit Points	**10**
Autumn session		
AGRI 3010	Animal Health and Welfare	10
AGRI 3002	Animal Nutrition and Feeding	10
NATS 3043	Advanced Science Research Project C	10
	Credit Points	**30**
2H session		
NATS 3056	Practicum 2	10
	Credit Points	**10**
Spring session		
AGEN 3001	Animal Behaviour	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
	Credit Points	**30**
	Total Credit Points	**230**

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time start-year intake

Subject	Title	Credit Points
Year 1: College Subjects		
Standard 3-term year		
Preparatory subject		
CHEM 0001	Chemistry (WSTC Prep)	10
Plus eight University-level units as follows		
BIOS 1014	Cell Biology (WSTC)	10
CHEM 1013	Essential Chemistry (WSTC)	10
NATS 1020	Scientific Literacy (WSTC)	10
CHEM 1009	Introductory Chemistry (WSTC)	10
BIOS 1003	Biodiversity (WSTC)	10
MATH 1027	Quantitative Thinking (WSTC)	10
NATS 1030	Human Anatomy and Physiology 2 (WSTC)	10
BIOS 1034	Management of Aquatic Environments (WSTC)	10
Total Credit Points		**90**

Related Programs

Bachelor of Advanced Science (3757) (https://hbook.westernsydney.edu.au/programs/bachelor-advanced-science/)

Bachelor of Medical Science (3755) (https://hbook.westernsydney.edu.au/programs/bachelor-medical-science/)

Bachelor of Science (3754) (https://hbook.westernsydney.edu.au/programs/bachelor-science/)

Bachelor of Science (Pathway to Teaching Primary/Secondary) (3756) (https://hbook.westernsydney.edu.au/programs/bachelor-science-pathway-teaching-primary-secondary/)

Bachelor of Science/Bachelor of Arts (3763) (https://hbook.westernsydney.edu.au/programs/bachelor-science-bachelor-arts/)

Bachelor of Science/Bachelor of Business (4748) (https://hbook.westernsydney.edu.au/programs/bachelor-science-bachelor-business/)

Bachelor of Science/Bachelor of International Studies (3764) (https://hbook.westernsydney.edu.au/programs/bachelor-science-bachelor-international-studies/)

Bachelor of Science/Bachelor of Laws (2743) (https://hbook.westernsydney.edu.au/programs/bachelor-science-bachelor-laws/)

Diploma in Science/Bachelor of Medical Science (6042) (https://hbook.westernsydney.edu.au/programs/diploma-science-bachelor-medical-science/)

Diploma in Science/Bachelor of Science (6043) (https://hbook.westernsydney.edu.au/programs/diploma-science-bachelor-science/)