

AGRIFOOD, TESTAMUR MAJOR (T123)

Western Sydney University Major Code: T123

Previous code: MT3045.1

Available to students in other Western Sydney University Programs: Yes, however the following restrictions apply.

This major is available as an elective in Bachelor of Science 3754 (except with Environmental Health T076), 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.

Opportunities are rapidly emerging for you to lead a new AgriFood future. Immersed in an approach that integrates social, economic and environmental values, students will view plant and animal production from consumer contexts to explore personal and community perceptions about food sustainability. This innovative degree merges topics of agriculture, food and health to empower you to design solutions for international development, community education and the urban–rural interface. The WSU AgriFood major is a hands-on experience, developing confidence and giving graduates an excellent foundation for careers in teaching, research, biotechnology and industry. The flexibility of the major also enables students to combine their interest with other disciplines including animal science, ecology, zoology, innovative foods, health and business. Throughout study, engagement with industry and community will inspire you to take action towards a regenerative and more environmentally sustainable AgriFood future.

Location

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

Recommended Sequence 2023

All students must complete 60 credit points of study at Level 3 to meet program requirements.

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 AgriFood requires the successful completion of 240 credit points as per the recommended sequence below.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40
Spring session		
PROC 1005	Introduction to Food Science	10

Choose one of the following:		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one of the following:		10
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		40

Year 2

Autumn session

NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
Choose two electives		20
Credit Points		40

Spring session

HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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 3005	Animal Production	10
Choose two electives		20
Credit Points		40

Spring session

AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	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 Agrifood requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Agrifood, given above.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40
Spring session		
PROC 1005	Introduction to Food Science	10
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	

MATH 1003	Biometry	
Choose one of		
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		30
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
Choose two electives		20
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	10
Choose one of		
NATS 3044	Complex Case Studies in Science	10
NATS 3045	Work Internship for Science Professionals	10
Choose one elective		10
Credit Points		50
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3005	Animal Production	10
Choose two electives		20
Credit Points		40
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	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 AgriFood requires the successful completion of 240 credit points as per the recommended sequence below.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10

BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40
Spring session		
PROC 1005	Introduction to Food Science	10
Choose one of		
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one of		10
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		40
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
NATS 2001	Advanced Science Project A	10
Choose one elective		10
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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	
Credit Points		40
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3005	Animal Production	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
Credit Points		40
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
Credit Points		40
Total Credit Points		240

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.

Course	Title	Credit Points
Year 1		
Year 1: College Subjects		
Standard 3-term year		
Preparatory subject		
CHEM 0001	Chemistry (WSTC Prep)	10
Eight university-level subjects 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
PROC 1007	Introduction to Food Science (WSTC)	10
BIOS 1034	Management of Aquatic Environments (WSTC)	10
Credit Points		90
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
AGRI 1011	Introduction to Agrifood	10
Choose one elective		10
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	10
Choose one of		
NATS 3044	Complex Case Studies in Science	10
NATS 3045	Work Internship for Science Professionals	10
Choose one elective		10
Credit Points		50
Year 3		
Autumn session		
NATS 3015	Field Project 1	10
AGRI 3005	Animal Production	10
Choose two electives		20
Credit Points		40
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
Choose two electives		20
Credit Points		40
Total Credit Points		260

Recommended Sequence 2024

All students must complete 60 credit points of study at Level 3 to meet program requirements.

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 AgriFood requires the successful completion of 240 credit points as per the recommended sequence below.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40

Spring session

PROC 1005	Introduction to Food Science	10
Choose one of the following:		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one of the following:		10
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		40

Year 2

Autumn session

NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
Choose two electives		20
Credit Points		40

Spring session

HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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 3005	Animal Production	10
Choose two electives		20
Credit Points		30

Spring session

AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	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 Agrifood requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Agrifood, 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.

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40
Spring session		
PROC 1005	Introduction to Food Science	10
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one of		10
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		40
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
NATS 2001	Advanced Science Project A	10
Choose two electives		20
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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 3005	Animal Production	10
Choose two electives		20
Credit Points		30
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
Choose two electives		20
Credit Points		40
Total Credit Points		240

Bachelor of Advanced Science

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

Course	Title	Credit Points
Year 1		
Autumn session		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agrifood	10
Credit Points		40
Spring session		
PROC 1005	Introduction to Food Science	10
Choose one of		10
MATH 1026	Quantitative Thinking	
MATH 1014	Mathematics 1A	
MATH 1003	Biometry	
Choose one of		10
CHEM 1012	Essential Chemistry	
BIOS 1012	Cell Biology	
Choose one elective		10
Credit Points		40
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
NATS 2001	Advanced Science Project A	10
Choose one elective		10
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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	
Credit Points		40
Year 3		
1H session		
NATS 3055	Practicum 1	10
Credit Points		10
Autumn session		
AGRI 3005	Animal Production	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
Credit Points		30
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
NATS 3043	Advanced Science Research Project C	10
Choose one elective		10
Credit Points		40
Total Credit Points		240

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.

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

Course	Title	Credit Points
Year 1		
1H/2H session		
Preparatory subject:		
CHEM 0001	Chemistry (WSTC Prep)	10
And 8 University Level subjects comprising:		
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
PROC 1007	Introduction to Food Science (WSTC)	10
BIOS 1034	Management of Aquatic Environments (WSTC)	10
Credit Points		90
Year 2		
Autumn session		
NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
AGRI 1011	Introduction to Agrifood	10
Choose one elective		10
Credit Points		40
Spring session		
HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	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 3005	Animal Production	10
Choose two electives		20
Credit Points		30
Spring session		
AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
Choose two electives		20
Credit Points		40
Total Credit Points		250

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 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/>)

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/>)