

# AGRICULTURAL SCIENCE, TESTAMUR MAJOR (T164)

Western Sydney University Major Code: T164

Previous code: T123

Available to students in other Western Sydney University Programs: No.

NOTE: This Major Testamur replaces T123 - Agrifood, Testamur Major from Spring 2025.

With a rich legacy teaching generations of agricultural scientists our historic Hawkesbury campus is the place to embark on a journey to transform the future of agriculture. The Agricultural Science major equips students with knowledge and skills in plant and animal production grounded in ecological principles to address global challenges. Students will gain hands-on experience in soil science, biosecurity, protected cropping, and agricultural technology. Opportunities for specialisation in animal science, environmental science, zoology, health, or business will enhance students' understanding of agriculture's role in a global context. Graduates are prepared for diverse careers in agritech, policymaking, research or teaching, driving innovation for a more resilient and sustainable world.

## Location

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

## Recommended Sequence Current

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
<b>Year 1</b>		
<b>Autumn session</b>		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agriculture	10
	<b>Credit Points</b>	<b>40</b>
<b>Spring session</b>		
AGRI 1003	Animal 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
	<b>Credit Points</b>	<b>40</b>

## Year 2

### Autumn session

NATS 2042	Science Research Methods	10
EART 2004	Soils and Substrates	10
Choose two electives		20
		<b>40</b>

### Credit Points

HORT 2003	Plant Production	10
HORT 3002	Protected Cropping Technology	10
Choose one of		10
NATS 3044	Complex Case Studies in Science	

### Choose one elective

NATS 3045	Work Internship for Science Professionals	
		<b>10</b>
		<b>40</b>

### Credit Points

NATS 3055	Practicum 1	10
AGRI 3005	Animal Production	10
Choose two electives		20
		<b>40</b>

### Credit Points

AGRI 3009	Agricultural Technology	10
BIOS 3036	Agricultural Biosecurity	10
Choose two electives		20
		<b>40</b>

### 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/archives/2024-2025/majors-minors/education-studies-primary-teaching-minor/>)

Or

Education Studies - Secondary Teaching, Minor (0267) (<https://hbook.westernsydney.edu.au/archives/2024-2025/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
<b>Year 1</b>		
<b>Autumn session</b>		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agriculture	10
	<b>Credit Points</b>	<b>40</b>
<b>Year 1</b>		
<b>Autumn session</b>		
NATS 1019	Scientific Literacy	10
CHEM 1008	Introductory Chemistry	10
BIOS 1001	Biodiversity	10
AGRI 1011	Introduction to Agriculture	10
	<b>Credit Points</b>	<b>40</b>

<b>Spring session</b>				
AGRI 1003	Animal Science	10	MATH 1003	Biometry
Choose one of		10	Choose one of	
MATH 1026	Quantitative Thinking		CHEM 1012	Essential Chemistry
MATH 1014	Mathematics 1A		BIOS 1012	Cell Biology
MATH 1003	Biometry		Choose one elective	
Choose one of		10		
CHEM 1012	Essential Chemistry			<b>Credit Points</b>
BIOS 1012	Cell Biology			40
Choose one elective		10	<b>Year 2</b>	
<b>Credit Points</b>		<b>40</b>	<b>Autumn session</b>	
<b>Year 2</b>			NATS 2042	Science Research Methods
<b>Autumn session</b>			EART 2004	Soils and Substrates
NATS 2042	Science Research Methods	10	NATS 2001	Advanced Science Project A
EART 2004	Soils and Substrates	10	Choose one elective	
Choose two electives		20		
<b>Credit Points</b>		<b>40</b>	<b>Credit Points</b>	
<b>Spring session</b>			<b>Spring session</b>	
HORT 2003	Plant Production	10	HORT 2003	Plant Production
HORT 3002	Protected Cropping Technology	10	HORT 3002	Protected Cropping Technology
Choose one of		10	NATS 2002	Advanced Science Project B
NATS 3044	Complex Case Studies in Science		Choose one of	
NATS 3045	Work Internship for Science Professionals		NATS 3044	Complex Case Studies in Science
Choose one elective		10	NATS 3045	Work Internship for Science Professionals
<b>Credit Points</b>		<b>40</b>	<b>Credit Points</b>	
<b>Year 3</b>			<b>Year 3</b>	
<b>Autumn session</b>			NATS 3055	Practicum 1
NATS 3055	Practicum 1	10	AGRI 3005	Animal Production
AGRI 3005	Animal Production	10	NATS 3043	Advanced Science Research Project C
Choose two electives		20	Choose one elective	
<b>Credit Points</b>		<b>40</b>		
<b>Spring session</b>			<b>Credit Points</b>	
AGRI 3009	Agricultural Technology	10	AGRI 3009	Agricultural Technology
BIOS 3036	Agricultural Biosecurity	10	BIOS 3036	Agricultural Biosecurity
Choose two electives		20	NATS 3043	Advanced Science Research Project C
<b>Credit Points</b>		<b>40</b>	Choose one elective	
<b>Total Credit Points</b>		<b>240</b>	<b>Credit Points</b>	
<b>Total Credit Points</b>		<b>240</b>	<b>Total Credit Points</b>	

## 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	
<b>Year 1</b>			
<b>Autumn session</b>			
NATS 1019	Scientific Literacy	10	Bachelor of Advanced Science (3757) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-advanced-science/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-advanced-science/</a> )
CHEM 1008	Introductory Chemistry	10	Bachelor of Medical Science (3755) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-medical-science/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-medical-science/</a> )
BIOS 1001	Biodiversity	10	Bachelor of Science (3754) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science/</a> )
AGRI 1011	Introduction to Agriculture	10	Bachelor of Science (Pathway to Teaching Primary/Secondary) (3756) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-pathway-teaching-primary-secondary/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-pathway-teaching-primary-secondary/</a> )
<b>Credit Points</b>		<b>40</b>	Bachelor of Science/Bachelor of Arts (3763) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-arts/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-arts/</a> )
<b>Spring session</b>			Bachelor of Science/Bachelor of Business (4748) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-business/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-business/</a> )
AGRI 1003	Animal Science	10	Bachelor of Science/Bachelor of International Studies (3764) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-international-studies/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-international-studies/</a> )
Choose one of		10	
MATH 1026	Quantitative Thinking		
MATH 1014	Mathematics 1A		

Bachelor of Science/Bachelor of Laws (2743) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-science-bachelor-laws/>)

Bachelor of Science/Bachelor of Laws (Honours) (2832) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-sciencebachelor-laws-honours/>)

Diploma in Science/Bachelor of Medical Science (6042) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-science-bachelor-medical-science/>)

Diploma in Science/Bachelor of Science (6043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-science-bachelor-science/>)