# 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, heath 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 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 |
|---|---|---|
| **Year 1** | | |
| **Autumn session** | | |
| NATS 1019 | Scientific Literacy | 10 |
| CHEM 1008 | Introductory Chemistry | 10 |
| BIOS 1001 | Biodiversity | 10 |
| AGRI 1011 | Introduction to Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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/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 |
|---|---|---|
| **Year 1** | | |
| **Autumn session** | | |
| NATS 1019 | Scientific Literacy | 10 |
| CHEM 1008 | Introductory Chemistry | 10 |
| BIOS 1001 | Biodiversity | 10 |
| AGRI 1011 | Introduction to Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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 |
| 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 Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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 Agriculture | 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** |

# 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 Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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 Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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/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.

## 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 Agriculture | 10 |
| | **Credit Points** | **40** |
| **Spring session** | | |
| PROC 1005 | Introduction to Food Science and Nutrition | 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** | | |
| **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 Agriculture | 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** |

Related Programs

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/)