

# GREENHOUSE HORTICULTURE, TESTAMUR MAJOR (T107)

Western Sydney University Major Code: T107

Previous Code: ST3078.1

## Available to students in other Western Sydney University

**Programs:** Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

This postgraduate major is designed for science graduates interested in a career in horticulture, protected cropping, greenhouse technology, postharvest technology, and agricultural biotechnology, working in a variety of settings such as food production, research and development, technical and senior management. This unique opportunity in greenhouse horticulture offers students exciting learning opportunities to develop expertise to meet future challenges to food supply, crop management, greenhouse control systems, and integrated pest management in a world-class greenhouse facility. Students will meet with industry experts and growers in becoming professional horticultural researchers with the technical and critical thinking skills to solve complex real-world problems and articulate appropriate solutions. A capstone subject involving either a research or professional industry project allows students to integrate their knowledge and skills developed from the whole program.

## Location

Campus	Mode	Advice
Hawkesbury Campus	Internal	Dr Mark Williams ( <a href="https://directory.westernsydney.edu.au/search/email/m.williams@westernsydney.edu.au">https:// directory.westernsydney.edu. au/search/email/ m.williams@westernsydney.edu.au</a> )

## Major Structure

Qualification for the award of Master of Science (Greenhouse Horticulture) requires the successful completion of 160 credit points comprising:

- 20 credit points of core subjects,
- 20 credit points of research capstone subjects,
- 40 credit points of major subjects as follows

Subject	Title	Credit Points
HORT 7001	Advanced Greenhouse Technology	10
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
<b>Total Credit Points</b>		<b>40</b>

- and at least 40 credit points from Alternate Pool 1 and up to 40 credit points from Alternate Pool 2.

Students should note that the subjects available in Alternate Pool 1 and Alternate Pool 2 are listed under the Structure tab of the Master

of Science (<https://hbook.westernsydney.edu.au/programs/master-science/>) page.

## Recommended Sequence Current Master of Science full-time start-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
HORT 7001	Advanced Greenhouse Technology	10
MATH 7016	The Nature of Data	10
Select one alternate subject		10
<b>Credit Points</b>		<b>40</b>
<b>Year 2</b>		
<b>Autumn session</b>		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects		30
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		20
NATS 7033	MSc Research Project	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>160</b>

## Master of Science full-time mid-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Spring session</b>		
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
HORT 7001	Advanced Greenhouse Technology	10
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Autumn session</b>		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Year 2</b>		
<b>Spring session</b>		
MATH 7016	The Nature of Data	10
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		20

NATS 7033	MSc Research Project	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	
Select one alternate subject		10
<b>Credit Points</b>		<b>40</b>
<b>Autumn session</b>		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects		30
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>160</b>

## Major in other postgraduate programs, full-time start-year intake

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
<b>Credit Points</b>		<b>20</b>
<b>Spring session</b>		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
<b>Credit Points</b>		<b>20</b>
<b>Total Credit Points</b>		<b>40</b>

## Major in other postgraduate programs, full-time mid-year intake

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
<b>Year 1</b>		
<b>Spring session</b>		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
<b>Credit Points</b>		<b>20</b>
<b>Autumn session</b>		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
<b>Credit Points</b>		<b>20</b>
<b>Total Credit Points</b>		<b>40</b>

## Equivalent Subject

The subject listed below counts towards completion of this major for students who passed this subject in 2021 or earlier.

ENGR 7018 - Research Preparation in Post Graduate Studies, replaced by NATS 7057 Research Preparation in Post Graduate Studies

## Recommended Sequence 2023 Master of Science full-time start-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
MATH 7016	The Nature of Data	10
Select one alternate subject		10
<b>Credit Points</b>		<b>40</b>
<b>Year 2</b>		
<b>Autumn session</b>		
NATS 7055	Experiment Design and Project Management	10
Select three alternate subjects		30
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject):		
NATS 7033	MSc Research Project	
HORT 7004	Industry Project	
HORT 7005	Industry Project (Extended)	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	
Select two alternate subjects		20
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>160</b>

## Master of Science full-time mid-year intake

Course	Title	Credit Points
<b>Year 1</b>		
<b>Spring session</b>		
HORT 7001	Advanced Greenhouse Technology	10
HORT 7006	Plant-Climate Interactions in Controlled Environments	10
MATH 7016	The Nature of Data	10
Select one alternate subject		10
<b>Credit Points</b>		<b>40</b>
<b>Autumn session</b>		
Select one alternate subjects		
HORT 7002	Greenhouse Control Systems	10
HORT 7003	Greenhouse Crop Production	10
NATS 7055	Experiment Design and Project Management	10
<b>Credit Points</b>		<b>40</b>

**Year 2****Spring session**

Select 20 credit points from the following (note that MSc Research Project is a 20 credit point subject): 20

NATS 7033	MSc Research Project	
HORT 7004	Industry Project	
HORT 7005	Industry Project (Extended)	
NATS 7054	Professional Topic	
NATS 7057	Research Preparation in Post Graduate Studies	

Select two alternate subjects 20

**Credit Points 40**

**Autumn session**

Select four alternate subjects 40

**Credit Points 40**

**Total Credit Points 160**

**Major in other postgraduate programs, full-time start-year intake**

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
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**Year 1****Autumn session**

HORT 7002	Greenhouse Control Systems	10
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HORT 7003	Greenhouse Crop Production	10
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**Credit Points 20**

**Spring session**

HORT 7001	Advanced Greenhouse Technology	10
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HORT 7006	Plant-Climate Interactions in Controlled Environments	10
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**Credit Points 20**

**Total Credit Points 40**

**Major in other postgraduate programs, full-time mid-year intake**

Students undertaking the major as part of a postgraduate program other than the Master of Science must complete 40 credit points of specialisation subjects.

Course	Title	Credit Points
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**Year 1****Spring session**

HORT 7001	Advanced Greenhouse Technology	10
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HORT 7006	Plant-Climate Interactions in Controlled Environments	10
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**Credit Points 20**

**Autumn session**

HORT 7002	Greenhouse Control Systems	10
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HORT 7003	Greenhouse Crop Production	10
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**Credit Points 20**

**Total Credit Points 40**

**Equivalent Subject**

The subject listed below counts towards completion of this major for students who passed this subject in 2021 or earlier.

ENGR 7018 - Research Preparation in Post Graduate Studies, replaced by NATS 7057 Research Preparation in Post Graduate Studies

**Related Programs**

Master of Science (3749) (<https://hbook.westernsydney.edu.au/programs/master-science/>)