

Course:	S820 Master of Science (Research)		
Campus:	Burwood (Melbourne), Waurn Ponds (Geelong)		
Student name:		ID#:	
CoE expiry:		CTR (credit):	

Use the course rules beneath this table to create your personal enrolment map. Your course map will vary if you are commencing in trimester 2.

## Sample Enrolment Map

Year 1				
Tri-1 (& Tri-2)	SSC803 Research Planning and Management	Advanced Disciplinary Unit 1*	Advanced Disciplinary Unit 2*	SSC801 Research Frontiers Project 1
Tri-2 (& Tri-1)	SSC804 Research Communication	Advanced Disciplinary Unit 3*	Advanced Disciplinary Unit 4*	SSC802 Research Frontiers Project 2
Year 2				
Tri-1	SSC805 Research Thesis 1 (4 cps)			
Tri-2	SSC806 Research Thesis 2 (4 cps)			

\*4 Advanced Disciplinary Units to be chosen from the specialisms below.

Master of Science (Research) Specialisms	
<b>Frontier Sciences</b>	<ul style="list-style-type: none"> <li>• Biotechnology (G)</li> <li>• Data Science (B, X)</li> <li>• Frontier Materials and Nanotechnology (G)</li> </ul>
<b>Engineering</b>	<ul style="list-style-type: none"> <li>• Electrical and Renewable Energy Engineering (G)</li> <li>• Electronics Engineering (G)</li> <li>• Mechanical Engineering Design (G)</li> </ul>
<b>Information Technology</b>	<ul style="list-style-type: none"> <li>• IT Security (B, X)</li> <li>• Software and Services (B, X)</li> </ul>
<b>Sustainable Regional Development</b>	<ul style="list-style-type: none"> <li>• Sustainable Regional Development (B, X)</li> </ul>

### Frontier Sciences Specialisms:

Biotechnology Campus: Waurn Ponds (Geelong)		
Tri 1	SLE703 Agricultural Biotechnology	SLE712 Laboratory Techniques for Cellular and Molecular Biotechnology
Tri 2	SLE706 Frontier Techniques in Biotechnology and Nanotechnology	SLE713 Industrial and Analytical Techniques in Biotechnology
Frontier Materials and Nanotechnology Campus: Waurn Ponds (Geelong)		
Tri 1	SEK701 Foundations of Materials Modelling	SEK702 Advanced Materials Characterisation
Tri 2	SEK703 Frontier Engineering Materials	SEK704 Frontier Natural and Functional Materials
Data Science Campus: Burwood (Melbourne), Cloud (online)		
Tri 1	SIT741 Statistical Data Analysis	SIT742 Modern Data Science
Tri 2	SIT743 Multivariate and Categorical Data Analysis	SIT744 Practical Machine Learning for Data Science

**Engineering Specialisms:**

<b>Electrical and Renewable Energy Engineering</b> <i>Campus: Waurin Ponds (Geelong)</i>		
Tri 1	SEE701 Power System Control	SEE717 Smart Grid Systems
Tri 2	SEE716 Electrical Systems Protection	SEE718 Renewable Energy Systems
<b>Electronics Engineering</b> <i>Campus: Waurin Ponds (Geelong)</i>		
Tri 1	SEE701 Power System Control	SEE712 Embedded Systems
Tri 2	SEE711 Sensor Networks	SEE710 Instrumentation and Process Control
<b>Mechanical Engineering Design</b> <i>Campus: Waurin Ponds (Geelong)</i>		
Tri 1	SEM712 CAE and Finite Element Analysis	SEM721 Product Development
Tri 2	SEM711 CAE and Automotive Product Development	SEM722 Advanced Manufacturing Technology

**Information Technology Specialisms:**

<b>IT Security</b> <i>Campus: Burwood (Melbourne), Cloud (Online)</i>		
Tri 1	SIT704 Advanced Topics in Digital Security	SIT763 IT Security Management
Tri 2	SIT703 Advanced Digital Forensics	SIT735 Communications Network Security
<b>Software and Services</b> <i>Campus: Burwood (Melbourne), Cloud (Online)</i>		
Tri 1	SIT737 Service Oriented Architectures and Technologies	SIT780 eSystems Software Development
Tri 2	SIT717 Enterprise Business Intelligence	SIT725 Advanced Software Engineering

**Sustainable Regional Development specialism:**

<b>Sustainable Regional Development</b> <i>Campus: Burwood (Melbourne), Cloud (Online)</i>		
Tri 1	SLE740 Climate Change Adaptation and Mitigation	SLE741 Regional Development Economics and Planning
Tri 2	SLE742 Systems and Strategic Thinking	SLE743 Regional Development Modelling

**Course Requirements:**

<p>The course comprises a total of 16 credit points, which must include the following:</p> <p><b>Year 1 (8 credit points):</b></p> <ul style="list-style-type: none"> <li>• 4 core units (4 credit points)</li> <li>• A specialism comprising of four units (4 credit points)</li> </ul> <p><b>Year 2 (8 credit points):</b></p> <ul style="list-style-type: none"> <li>• 2 x Research Thesis units (four credit points each)</li> </ul>
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