

Academic Chair: [Travis Woodward](#)

Start Date: Semester 1 2025

Option: Engineering Design Minor

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG543 Modelling and Systems Engineering	3
	ENG551 Microcontrollers and Data Communication	3	ENG544 Engineering Sustainability	3
	ENG552 Industrial Control Systems	3	ICT515 Foundations of Data Science	3
	ENG526 Postgraduate Engineering Skills and Tools	3	ENG611 Intelligent Systems	3
	Total	12	Total	12
Year 2 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	GRD503 Design Thinking Tools ¹ or Specified Elective ²	3	Specified Elective ¹ or GRD503 Design Thinking Tools ²	3
	ENG553 Industrial Process Control	3	ENG605 Design Project (S2 option)	6
	ENG613 Applied Robotics (Robotic Manipulation)	3	ENG100 Engineering Professional Practice	0
	ICT606 Machine Learning	3	ENG612 Autonomous Systems	3
	Total	12	Total	12

TOTAL CREDIT POINTS 48

Recommended Specified Electives
<p>ENG532 Renewable Energy Resources and Technologies (S1) ENG536 Electrical Machines in the Smart Grid era (S1)</p> <p>ENG570 Circular Economy and Innovation (S1) ENG630 Hydrogen Systems (S2)</p> <p>PEN504 Greenhouse Gas Reporting and Life Cycle Assessment (S2) PEN594 Energy Auditing and Management (S1) PEN600 Energy Storage (S2)</p>

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 27/11/24.

¹ If GRD503 Design Thinking Tools is taken in Year 2 Semester 1, then a Specified Elective must be taken in Year 2 Semester 2.

² If a Specified Elective is taken in Year 2 Semester 1, then GRD503 Design Thinking Tools must be taken in Year 2 Semester 2.

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Start Date: Semester 1 2025

Option: Engineering Research Minor

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG543 Modelling and Systems Engineering	3
	ENG551 Microcontrollers and Data Communication	3	ENG544 Engineering Sustainability	3
	ENG552 Industrial Control Systems	3	ICT515 Foundations of Data Science	3
	ENG526 Postgraduate Engineering Skills and Tools	3	ENG611 Intelligent Systems	3
	Total	12	Total	12
Year 2 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG606 Thesis Project (Y option)	3	ENG606 Thesis Project (Y option)	9
	ENG100 Engineering Professional Practice (Y)	0	ENG100 Engineering Professional Practice (Y)	0
	ENG553 Industrial Process Control	3	ENG612 Autonomous Systems	3
	ENG613 Applied Robotics (Robotic Manipulation)	3		
	ICT606 Machine Learning	3		
	Total	12	Total	12

TOTAL CREDIT POINTS 48

Enrolment Rules

Students who wish to enrol in the Thesis Project must demonstrate an average 70% or greater WAM equivalent (2.8 GPA equivalent) during their first 24 cpts of study in the Master of Engineering Practice course, or alternatively can enrol with permission from the Academic Chair.