

Academic Chair: [Travis Woodward](#)
Travis.Woodward@murdoch.edu.au

Start Date: Semester 2 2025

Option: Engineering Design Minor

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
			ENG526 Postgraduate Engineering Skills and Tools	3
			ENG543 Modelling and Systems Engineering	3
			ENG544 Engineering Sustainability	3
			ICT515 Foundations of Data Science	3
	Total		Total	12
Year 2 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG605 Design Project (H option) ¹	3
	ENG551 Microcontrollers and Data Communication	3	ENG100 Engineering Professional Practice (H)	0
	ENG552 Industrial Control Systems	3	ENG611 Intelligent Systems	3
	ENG553 Industrial Process Control	3	ENG612 Autonomous Systems	3
	Total	12	Total	12
Year 3 – 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ENG605 Design Project (H option)	3		
	ENG100 Engineering Professional Practice (H)	0		
	ENG613 Applied Robotics (Robotic Manipulation)	3		
	ICT606 Machine Learning	3		
	Specified Elective	3		
	Total	12	Total	

TOTAL CREDIT POINTS 48

Specified Electives
<p>ENG532 Renewable Energy Resources and Technologies ENG536 Electrical Machines in the Smart Grid era</p> <p>ENG570 Circular Economy and Innovation ENG630 Hydrogen Systems</p> <p>PEN504 Greenhouse Gas Reporting and Life Cycle Assessment PEN594 Energy Auditing and Management PEN600 Energy Storage</p> <p>SIK502 Wandju Boodja (Welcome to Country)</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 01/07/25.

¹ Note that enrolling in ENG605 requires that the full unit fee (6 CP) be paid at the beginning of the teaching period.

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Start Date: Semester 2 2025

Option: Engineering Research Minor

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
			ENG526 Postgraduate Engineering Skills and Tools	3
			ENG543 Modelling and Systems Engineering	3
			ENG544 Engineering Sustainability	3
			ICT515 Foundations of Data Science	3
	Total		Total	12
Year 2 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG606 Thesis Project (H option) ²	6
	ENG551 Microcontrollers and Data Communication	3	ENG100 Engineering Professional Practice (H)	0
	ENG552 Industrial Control Systems	3	ENG611 Intelligent Systems	3
	ENG553 Industrial Process Control	3	ENG612 Autonomous Systems	3
	Total	12	Total	12
Year 3 – 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ENG606 Thesis Project (H option)	6		
	ENG100 Engineering Professional Practice (H)	0		
	ENG613 Applied Robotics (Robotic Manipulation)	3		
	ICT606 Machine Learning	3		
	Total	12	Total	

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.

² Note that enrolling in ENG606 requires that the full unit fee (12 CP) be paid at the beginning of the teaching period.