

Academic Chair: Dr Linda Li ([L.Li@murdoch.edu.au](mailto:L.Li@murdoch.edu.au))

Start Date:

Semester 2 2025

## Minor: Engineering Design

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
			ENG526 Postgraduate Engineering Skills and Tools	3
			ENG544 Engineering Sustainability	3
			ENG572 Design of Water Treatment Unit Operations	3
			ENG622 Industrial Ecology (Symbiosis)	3
	Total		Total	12
Year 2 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ICT515 Foundations of Data Science	3
	ENG570 Circular Economy and Innovation	3	ENG630 Hydrogen Systems	3
	ENG571 Hydrology and Water Cycle Management	3	ENG605 Design Project (H) <sup>1</sup>	3
	ENG573 Integrated Waste Management for Resource Recovery	3	ENG543 Modelling and Systems Engineering	3
	Total	12	Total	12
Year 3 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	GRD503 - Design Thinking Tools	3		
	ENG621 Land Use Planning and Green Infrastructure	3		
	Specified Elective (S1)	3		
	ENG605 Design Project (H) <sup>1</sup>	3		
	ENG100 Engineering Professional Practice (H)	0		
	Total	12	Total	

**TOTAL CREDIT POINTS 48**

### Specified Electives

#### Recommended Specified Electives:

ENV554 Sustainable Land and Water Management S1  
 ENV556 Principles of Environmental Impact Assessment S1  
 ENV557 Advanced Environmental Management S1  
 PEN594 Energy Auditing and Management S1  
 ENG553 Industrial Process Control S1  
 ENG552 Industrial Control Systems S1  
 PEN504 Greenhouse Gas Reporting and Life Cycle Assessment S2  
 PEN600 Energy Storage S2  
 ENG526 Postgraduate Engineering Skills and Tools S2  
 Or any other elective subject to Academic Chair approval

<sup>1</sup> Students enrolling in ENG605 (H) need to pay the full unit fee (6 cpts) at the commencement of the teaching period.

**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 15/06/25.

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## Option: Engineering Research

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 24CPs of study in the Master of Engineering Practice course, or alternatively can enrol with permission from the Academic Chair.

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
			ENG526 Postgraduate Engineering Skills and Tools (or Specified Elective with permission of the Academic Chair)	3
			ENG544 Engineering Sustainability	3
			ENG572 Design of Water Treatment Unit Operations	3
			ENG622 Industrial Ecology (Symbiosis)	3
	Total		Total	12
Year 2 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ICT515 Foundations of Data Science	3
	ENG570 Circular Economy and Innovation	3	ENG630 Hydrogen Systems	3
	ENG571 Hydrology and Water Cycle Management	3	ENG606 Thesis Project (H) <sup>2</sup>	3
	ENG573 Integrated Waste Management for Resource Recovery	3	ENG543 Modelling and Systems Engineering	3
			ENG100 Engineering Professional Practice (H)	0
		12	Total	12
Year 3 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ENG621 Land Use Planning and Green Infrastructure	3		
	ENG606 Thesis Project (H) <sup>2</sup>	9		
	ENG100 Engineering Professional Practice (H)	0		
	Total	12	Total	

**TOTAL CREDIT POINTS 48**

<sup>2</sup> Students enrolling in ENG606 (H) need to pay the full unit fee (12 cpts) at the commencement of the teaching period.

**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 15/06/25.