

Master of Engineering Practice M1330 (Environmental and Sustainable Systems Engineering)

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

Start Date:

Semester 2 2024

Minor: Engineering Design

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
			ENG543 Modelling and Systems Engineering	3
			ENG544 Engineering Sustainability	3
			ENG572 Design of Water Treatment Unit Operations	3
			ICT515 Foundations of Data Science	3
	Total		Total	12
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG622 Industrial Ecology (Symbiosis)	3
	ENG570 Circular Economy and Innovation	3	ENG630 Hydrogen Systems	3
	ENG571 Hydrology and Water Cycle Management	3	ENG605 Design Project (H)	3
	BUS354 - Leading Emerging Futures	3	GRD503 - Design Thinking Tools	3
	Total	12	Total	12
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
				0
	ENG573 Integrated Waste Management for Resource Recovery	3		0
	ENG621 Land Use Planning and Green Infrastructure	3		0
	Specified Elective	3		0
	ENG605 Design Project (H)	3		
	ENG100 Engineering Professional Practice	0		
	Total	12	Total	0

TOTAL CREDIT POINTS 48

Specified Electives

Recommended Specified Electives:

ENG532 - Renewable Energy Resources and Technologies S1
 ENV303 GIS for Environmental Management and Planning S2
 ENV554 Sustainable Land and Water Management S1
 ENV558 Environmental Monitoring S2
 ENV680 Climate Change Adaptation: Ecosystems and Societies S2
 PEN504 Greenhouse Gas Reporting and Life Cycle Assessment S2
 PEN598 - Carbon Management S1
 PEN597 - Climate Change Science and Policy S1
 PEN601 - Smart Low Carbon Cities S2
 PEN628 - Sustainable Energy Development S1
 TLC501 Communication Skills for Postgraduate Study

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 25/07/24.

Handbook entry: <https://handbook.murdoch.edu.au/aos/06/MJ-ESSE>

Master of Engineering Practice M1330 (Environmental and Sustainable Systems Engineering)

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

Start Date:

Semester 2 2024

Minor: Engineering Research

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
			ENG543 Modelling and Systems Engineering	3
			ENG544 Engineering Sustainability	3
			ENG572 Design of Water Treatment Unit Operations	3
			ICT515 Foundations of Data Science	3
	Total		Total	12
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG500 Finance, Management, Ethics and Law	3	ENG622 Industrial Ecology (Symbiosis)	3
	ENG570 Circular Economy and Innovation	3	ENG630 Hydrogen Systems	3
	ENG571 Hydrology and Water Cycle Management	3	ENG606-1 Thesis Project	6
	Specified Elective	3		
		12	Total	12
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ENG573 Integrated Waste Management for Resource Recovery	3		
	ENG621 Land Use Planning and Green Infrastructure	3		
	ENG606-2 Thesis Project	6		
	ENG100 Engineering Professional Practice	0		
	Total	12	Total	

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