

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

Academic Chair: Assoc Prof Martin Anda (m.anda@murdoch.edu.au)

Start Date:

Semester 1 2024

Minor: Engineering Design

Year 1 – 2024	Semester 1 Units		CP	Semester 2 Units		CP
		ENG500 Finance, Management, Ethics and Law	3	ENG543 Modelling and Systems Engineering		3
		ENG570 Circular Economy and Innovation	3	ENG544 Engineering Sustainability		3
		ENG571 Hydrology and Water Cycle Management	3	ENG572 Design of Water Treatment Unit Operations		3
		BUS354 - Leading Emerging Futures	3	ICT515 Foundations of Data Science		3
	Total	12		Total	12	
Year 2 - 2025	Semester 1 Units		CP	Semester 2 Units		CP
		GRD503 Design Thinking	3	ENG622 Industrial Ecology (Symbiosis)		3
		ENG573 Integrated Waste Management for Resource Recovery	3	ENG630 Hydrogen Systems		3
		ENG621 Land Use Planning and Green Infrastructure	3	ENG605 Design Project		6
		Elective	3	ENG100 Engineering Professional Practice		0
	Total	12		Total	12	

TOTAL CREDIT POINTS 48

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 23/11/23.

Handbook entry: <https://handbook.murdoch.edu.au/aos/05/MJ-ESSE>

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

Academic Chair: Assoc Prof Martin Anda (m.anda@murdoch.edu.au)

Start Date:

Semester 1 2024

Minor: Engineering Research

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

TOTAL CREDIT POINTS 48

Specified Electives

Recommended Specified Electives:

ENV303 GIS for Environmental Management and Planning

ENV554 Land and Water Management

ENV558 Environmental Monitoring

ENV680 Climate Change Adaptation: Ecosystems and Societies

PEN504 Greenhouse Gas Reporting and Life Cycle Assessment

TLC501 Communication Skills for Postgraduate Study

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