

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

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

Start Date: Semester 2 2023

Minor: Engineering Design

Year 1 – 2023	Semester 1 Units	CP	Semester 2 Units	CP
				ENG543 Modelling and Systems Engineering
			ENG544 Engineering Sustainability	3
			ICT515 Foundations of Data Science	3
			BUS368 Cultures of Innovation	3
	Total		Total	12
Year 2 - 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ENG570 - Circular Economy and Innovation	3	ENG572 - Design Water Treatment Unit Operations	3
	ENG571 - Hydrology & Water Cycle Management	3	ENG622 - Industrial Ecology (Symbiosis)	3
	ENG573 - Integrated Waste Management for Resource Recovery	3	ENG630 - Hydrogen Systems	3
	ENG500 Finance, Management, Ethics and Law	3	ENG605-1 Design Project	3
	Total	12	Total	12
Year 3 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG621 - Land Use Planning & Green Infrastructure	3		
	Specified Elective	3		
	Specified Elective	3		
	ENG605-2 Design Project	3		
	ENG100 Engineering Professional Practice	0		
	Total	12	Total	

TOTAL CREDIT POINTS 48

Recommended Specified Electives

TLC501 Communication Skills for Postgraduate Study
 GRD503 Design Thinking
 GRD504 - Research Methods for Innovation
 PEN504 Greenhouse Gas Reporting and Life Cycle Assessment
 ENG552 Industrial Control Systems
 ENG553 Control Systems and Process Dynamics
 ENV554 Land and Water Management
 ENV556 Principles of Environmental Impact Assessment
 ENV557 Advanced Environmental Management
 ENV558 Environmental Monitoring
 ENV616 Environmental Policy for the 21st Century
 ENV680 Climate Change Adaptation: Ecosystems and Societies
 ICT606 Machine Learning

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 20/06/23.

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

Academic Chair: Assoc Prof Martin Anda
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Start Date: Semester 2 2023

Minor: Engineering Research

Year	Semester 1 Units		CP	Semester 2 Units		CP
Year 1 – 2023				ENG543 Modelling and Systems Engineering		3
				ENG544 Engineering Sustainability		3
				ICT515 Foundations of Data Science		3
				BUS368 Cultures of Innovation		3
		Total			Total	12
Year 2 - 2024				ENG622 - Industrial Ecology (Symbiosis)		3
				ENG630 - Hydrogen Systems OR		3
				ENG572 - Design of Water Treatment Unit Operations		
				ENG606-1 Thesis Project		6
		Total	12		Total	12
Year 3 - 2025						
		Total	12		Total	

TOTAL CREDIT POINTS 48

Recommended Specified Electives
TLC501 Communication Skills for Postgraduate Study GRD503 Design Thinking PEN504 Greenhouse Gas Reporting and Life Cycle Assessment ENG552 Industrial Control Systems ENG553 Control Systems and Process Dynamics ENV554 Land and Water Management ENV556 Principles of Environmental Impact Assessment ENV557 Advanced Environmental Management ENV558 Environmental Monitoring ENV616 Environmental Policy for the 21st Century ENV680 Climate Change Adaptation: Ecosystems and Societies ICT606 Machine Learning

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