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**

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2024			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	GRD5031 - Design Thinking Tools	3
	BUS354 - Leading Emerging Futures	3	Elective	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	ENG100 Engineering Professional Practice	0
	ENG621 Land Use Planning and Green Infrastructure	3		0
	ENG605 Design Project	6		0
	Total	12	**Total**	0

TOTAL CREDIT POINTS 48

Specified Electives

Recommended Specified Electives:
ENG532 - Renewable Energy Resources and Technologies S1 – clashes
ENV303 GIS for Environmental Management and Planning S2
ENV554 Land and Water Management S1 – clashes
ENV558 Environmental Monitoring S2
ENV680 Climate Change Adaptation: Ecosystems and Societies S2
MBS684 - Managing Strategic Risk and Projects T2 (May – July)
PEN504 Greenhouse Gas Reporting and Life Cycle Assessment S2
PEN598 - Carbon Management S1
PEN597 - Climate Change Science and Policy S1 – clashes
PEN600 Energy Storage – S2
PEN601 - Smart Low Carbon Cities S2
PEN628 - Sustainable Energy Development S1 - clashes
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 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: Dr Linda (l.li@murdoch.edu.au) **Start Date:** Semester 2 2024

Minor: Engineering **Research**

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2024			ENG543 Modelling and Systems Engineering	3
	ENG100 Engineering Professional Practice		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
	(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	ENG100 Engineering Professional Practice	
	ENG606-2 Thesis Project	6		
	Total	12	**Total**	

TOTAL CREDIT POINTS 48

Specified Electives

Recommended Specified Electives:
ENG532 - Renewable Energy Resources and Technologies S1 – clashes
ENV303 GIS for Environmental Management and Planning S2
ENV554 Land and Water Management S1 – clashes
ENV558 Environmental Monitoring S2
ENV680 Climate Change Adaptation: Ecosystems and Societies S2
MBS684 - Managing Strategic Risk and Projects T2 (May – July)
PEN504 Greenhouse Gas Reporting and Life Cycle Assessment S2
PEN598 - Carbon Management S1
PEN597 - Climate Change Science and Policy S1 – clashes
PEN600 Energy Storage – S2
PEN601 - Smart Low Carbon Cities S2
PEN628 - Sustainable Energy Development S1 - clashes
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 23/11/23.

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