

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

Start Date:

Semester 2 2024

Minor: Engineering Design

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

