

Academic Chair: hai.wang@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
			Specified Elective	3
	Total		Total	12
Year 2 - 2024	Semester 1 Units	CP	Semester 2 Units	CP
	ENG551 Microcontrollers and Data Communication	3	ENG611 Intelligent Systems	3
	ENG552 Industrial Control Systems	3	ENG612 Autonomous Systems	3
	ENG553 Control Systems and Process Dynamics	3	BUS368 Cultures of Innovation	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
	ENG613 Applied Robotics (Robotic Manipulation)	3		
	ICT606 Machine Learning	3		
	GRD503 Design Thinking	3		
	ENG605-2 Design Project	3		
	ENG100 Engineering Professional Practice	0		
	Total	12	Total	

TOTAL CREDIT POINTS 48

Specified Electives

Recommended Specified Electives:

- ENG570 Circular Economy and Innovation
- ENG630 Hydrogen Systems
- ENV303 GIS for Environmental Management and Planning
- 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
- PEN504 Greenhouse Gas Reporting and Life Cycle Assessment
- 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 08/06/23.

Academic Chair: hai.wang@murdoch.edu.au

Start Date: Semester 2 2023

Minor: Engineering Research

Year 1 – 2023	Semester 1 Units		CP	Semester 2 Units		CP
				ENG543 Modelling and Systems Engineering		3
				ENG544 Engineering Sustainability		3
				ICT515 Foundations of Data Science		3
				Specified Elective		3
	Total			Total	12	
Year 2 - 2024	Semester 1 Units		CP	Semester 2 Units		CP
	ENG551 Microcontrollers and Data Communication		3	ENG611 Intelligent Systems		3
	ENG552 Industrial Control Systems		3	ENG612 Autonomous Systems		3
	ENG553 Control Systems and Process Dynamics		3	ENG606-1 Thesis Project		6
	ENG500 Finance, Management, Ethics and Law		3			
	Total	12		Total	12	
Year 3 - 2025	Semester 1 Units		CP	Semester 2 Units		CP
	ENG613 Applied Robotics (Robotic Manipulation)		3			
	ICT606 Machine Learning		3			
	ENG606-2 Thesis Project		6			
	ENG100 Engineering Professional Practice		0			
	Total	12		Total		

TOTAL CREDIT POINTS 48

Specified Electives
<p>Recommended Specified Electives:</p> <ul style="list-style-type: none"> ENG570 Circular Economy and Innovation ENG630 Hydrogen Systems ENV303 GIS for Environmental Management and Planning 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 PEN504 Greenhouse Gas Reporting and Life Cycle Assessment 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 08/06/23.