

# M1330 – Master of Engineering Practice

Major: Intelligent Industrial Control and Autonomous Systems Engineering

Minor: Engineering Design

Academic Chair

Hai Wang

Hai.Wang@murdoch.edu.au

Year:

2023

Semester:

1

Semester 1				Semester 2		
Units	CP		Units	CP		
ENG551 - Microcontrollers and Data Communication	3	Wint: CP **	ICT515 - Foundations of Data Science	3	Sum: CP **	
ENG552 - Industrial Control Systems	3		ENG544 - Engineering Sustainability	3		
ENG553- Control Systems and Process Dynamics	3		ENG543 - Modelling and Systems Engineering	3		
ENG500 - Finance, Management, Ethics and Law	3		Specified Elective	3		
SEMESTER TOTAL			12	SEMESTER TOTAL		12
Year 2 - 2024	ENG613 - Applied Robotics (Robotic Manipulation)	3	Wint: CP **	ENG612 - Autonomous Systems	3	Sum: CP **
	ICT606 Machine Learning	3		ENG611 - Intelligent Systems	3	
	GRD504 - Research Methods for Innovation	3		ENG605 Design Project	6	
	BUS354 - Leading Emerging Futures	3		ENG100 Engineering Professional Practice	0	
	SEMESTER TOTAL			12	SEMESTER TOTAL	
<b>Total Credit Points</b>						<b>48</b>

### Recommended Specified Electives:

ENG553 Control Systems and Process Dynamics  
 ENG552 Industrial Control Systems  
 ENG551 Microcontrollers and Data Communication  
 ENG570 Circular Economy and Innovation  
 ENV554 Land and Water Management  
 ENV556 Principles of Environmental Impact Assessment  
 ENV557 Environmental Assessment and Management  
 ENV616 Environmental Policy for the 21<sup>st</sup> Century  
 ICT606 Machine Learning  
 TLC501 Communication Skills for Postgraduate Study

Disclaimer: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online Handbook (<https://handbook.murdoch.edu.au/>). Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course. Correct as at 12/10/2022.

# M1330 – Master of Engineering Practice

**Major: Intelligent Industrial Control and Autonomous Systems Engineering**

**Minor: Engineering Research**

Academic Chair

Hai Wang

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Year:

2023

Semester:

1

Semester 1				Semester 2			
Units	CP	Wint:	Units	CP	Sum:		
ENG551 - Microcontrollers and Data Communication	3		CP **	ICT515 - Foundations of Data Science		3	CP **
ENG552 - Industrial Control Systems	3			ENG544 - Engineering Sustainability		3	
ENG553 - Control Systems and Process Dynamics	3			ENG543 - Modelling and Systems Engineering		3	
ENG500 - Finance, Management, Ethics and Law	3			Specified Elective		3	
SEMESTER TOTAL	9		**	SEMESTER TOTAL		12	**
Year 2 - 2024	ENG613 - Applied Robotics (Robotic Manipulation)	3	CP 3 **	ENG612 - Autonomous Systems	3	CP **	
	ICT606 Machine Learning	3	Wint:ENG606 Thesis Project	ENG611 - Intelligent Systems	3	Sum:	
	ENG606 Thesis Project	6		ENG606 Thesis Project	6		
				ENG100 Engineering Professional Practice	0		
	SEMESTER TOTAL	12		**	SEMESTER TOTAL		12
<b>Total Credit Points</b>					<b>48</b>		

### Recommended Specified Electives:

ENG553 Control Systems and Process Dynamics  
 ENG552 Industrial Control Systems  
 ENG551 Microcontrollers and Data Communication  
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