

Academic Chair: M.Calais@murdoch.edu.au

Start Date: Semester 2 2023

Suggested Industrial Control & Automation Focus

Year	Semester 1 Units		Semester 2 Units	
		CP		CP
Year 1 – 2023			MAS164 Fundamentals of Mathematics ¹	3
			ENG102 Engineering Design for Sustainability	3
			PEN120 General Physics ²	3
			ENG101 Engineering Fundamentals	3
			Total	12
Year 2 - 2024				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	
Year 3 – 2025				
			MAS182 Applied Mathematics	3
			ENG103 Principles of Engineering	3
			ENG109 Engineering Computing Systems	3
			Engineering Elective	3
		Total	12	
Year 3 – 2025				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	
Year 4 - 2026				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	
Year 4 - 2026				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	
Year 4 - 2026				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	
Year 4 - 2026				
			MAS161 Calculus and Matrix Algebra	3
			ENG336 Finance, Ethics and Law	3
			ENG214 Electrical and Electronic Circuits	3
			BUS368 Cultures of Innovation	3
		Total	12	

TOTAL CREDIT POINTS 72

¹ Students who have achieved a final scaled score of 55% or more in ATAR Mathematics Specialist, WACE Mathematics Specialist 3C/3D or TEE Calculus may not enrol in this unit and should consult their Academic Chair.

² Students who have achieved a final scaled score of 60% or more in ATAR Physics or WACE Physics 3A/3B may not enrol in this unit and should consult their Academic Chair.

Elective Units

KAC102 Wandju Boodja (Welcome to Country)
CHE140 - Fundamentals of Chemistry
ENV102 Foundations of the Environment
ENG300 Environmental Technology for Sustainability
ENG221 Pollution & its Control
ENG341 Water Conservation & Auditing
ENV243 - Water and Earth Science
ENV242 - Atmospheric and Climate Science
ENV303 - GIS for Environmental Management and Planning
ENV331 - Environmental Management
ENG391 - Process Control
ENG251 - PLC Systems
ENG392 - SCADA and Instrumentation Systems
ENG252 Embedded Systems
PEN152 Principles of Physics
ICT158 Introduction to Information Systems
MAS183 Statistical Data Analysis

Spine - ENG100 Engineering Professional Practice (0 CP)

Bachelor of Engineering Technology students should complete 300 hours of approved work experience to complete the requirements of the course.

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 28/05/23.