

Mechatronic Engineering specialisation plus Mining Engineering major Bachelor of Engineering (Honours)



Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) in Mechatronic Engineering in 2023. Please note that all course selections must adhere to the program course list outlined at [UQ Courses and Programs](#). If you have any questions or concerns regarding your course selections, please speak with an [Academic Advisor](#) in the School of Mechanical and Mining Engineering.

February Commencement

SEMESTER YEAR 1					
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Elective	
Sem 2 July	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	ENGG1700 Statics and Materials	Elective	
SEMESTER YEAR 2					
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MATH2001 Calculus & Linear Algebra II	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data	ELEC2300 Fundamentals of Electromagnetism & Electromechanics
Sem 2 July	CSSE2010 Introduction to Computer Systems	MECH2210 Intermediate Mechanical & Space Dynamics	ELEC2004 Circuits, Signals & Systems	MECH2100 Machine Element Design	
SEMESTER YEAR 3					
Sem 1 Feb	METR4201 Control Engineering 1	METR3100 Control Systems Implementation	MECH2300 Structures & Materials	ELEC3004 Signals, Systems & Control	
Sem 2 July	METR4202 Robotics & Automation	MECH3200 Advanced Dynamics & Vibrations	MINE3110 Integrated Orebody Knowledge	MINE3122 Mining Systems & Automation	
SEMESTER YEAR 4					
Sem 1 Feb	METR4911 Thesis/Design Project	ENGG4900 Professional Practice & the Business Environment	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics	
Sem 2 July		METR4810 Mechatronic System Design Project II	MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation	

Refer to the 2023 course list for electives:

[Bachelor of Engineering \(Honours\) - my.UQ - The University of Queensland, Australia](#)

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July Commencement

SEMESTER YEAR 1				
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Elective
Sem1 Feb	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1700 Statics and Materials	Elective
SEMESTER YEAR 2				
Sem 2 July	MECH2210 Intermediate Mechanical & Space Dynamics	MATH2001 Calculus & Linear Algebra	MECH2100 Machine Element Design	MINE3110 Integrated Orebody Knowledge
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data	MECH2300 Structures & Materials
SEMESTER YEAR 3				
Sem 2 July	METR4810 Mechatronic System Design Project II	MECH3200 Advanced Dynamics & Vibrations	ELEC2004 Circuits, Signals & Systems	MINE3122 Mining Systems & Automation
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering 1	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics
SEMESTER YEAR 4				
Sem 2 July	METR4912 Thesis/Design Project	METR4202 Robotics & Automation	MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation
Sem 1 Feb		ENGG4900 Professional Practice & the Business Environment	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	ELEC3004 Signals, Systems & Control

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