

Mechanical 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), Mechanical and Mining Engineering Specialisation 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	ENGG1700 Statics and Materials	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering
Sem 2 July	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1300 Introduction to Electrical Systems	Elective
SEMESTER		YEAR 2		
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2001 Calculus & Linear Algebra II	MECH2300 Structures & Materials	MECH2410 Fundamentals of Fluid Mechanics
Sem 2 July	MECH2100 Machine Element Design	MECH2700 Computational Engineering & Data Analysis	MECH2210 Intermediate Mechanical & Space Dynamics	Elective
SEMESTER		YEAR 3		
Sem 1 Feb	MECH3610 Systems Engineering Principles	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data	MECH3780 Computational Mechanics
Sem 2 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MINE3110 Integrated Orebody Knowledge	MECH3400 Thermodynamics & Heat Transfer
Sem 2 July	MINE3122 Mine Systems & Automation			
SEMESTER		YEAR 4		
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	METR4201 Control Engineering I	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics
Sem 2 July		ENGG4900 Professional Practice & the Business Environment	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	ENGG1700 Statics and Materials	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering
Sem1 Feb	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	MECH2300 Structures & Materials	ENGG1300 Introduction to Electrical Systems
SEMESTER YEAR 2				
Sem 2 July	MECH2100 Machine Element Design	MATH2001 Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data MECH3780 Computational Mechanics	MECH2410 Fundamentals of Fluid Mechanics
SEMESTER YEAR 3				
Sem 2 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MINE3110 Integrated Orebody Knowledge	MINE3122 Mine Systems & Automation
Sem 1 Feb	MECH3610 Systems Engineering Principles	MECH3400 Thermodynamics & Heat Transfer	MINE3123 Mine Planning & Sustainability	MINE3129 Applied Mining Geomechanics
SEMESTER YEAR 4				
Sem 2 July	ENGG4601 Engineering Thesis	MINE4124 Mine Design & Feasibility	MINE4129 Mine Process Optimisation	Elective
Sem 1 Feb		ENGG4900 Professional Practice & the Business Environment	METR4201 Control Engineering	Elective

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