

Mechanical Engineering specialisation plus Materials 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 Materials 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	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials	
Sem 2 July	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	ENGG1300 Introduction to Electrical Systems	Elective	
SEMESTER YEAR 2					
Sem 1 Feb	MATH2001 Advanced Calculus & Linear Algebra II	MECH2300 Structures & Materials	MECH2305 Intro to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics	
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	Elective	
SEMESTER YEAR 3					
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data
Sem 2 July	MECH2310 Science & Engineering of Metals	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MECH3301 Materials Selection	
SEMESTER YEAR 4					
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	CHEE3301 Polymer Engineering	METR4201 Control Engineering	Elective	
Sem 2 July		ENGG4900 Professional Practice & the Business Environment	MATE4302 Electrochemistry & Corrosion	Elective	

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 1 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials
Sem 2 Feb	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary	ENGG1300 Introduction to Electrical Systems	Elective
SEMESTER YEAR 2				
Sem 2 July	MATH2001 Advanced Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	Elective	MECH2700 Computational Engineering & Data Analysis
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH2410 Fundamentals of Fluid Mechanics
			MECH2300 Structures & Materials	
SEMESTER YEAR 3				
Sem 2 July	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics & Vibrations	MECH2310 Science & Engineering of Metals	MECH3301 Materials Selection
Sem 1 Feb	MECH3610 Systems Engineering Principles	METR4201 Control Engineering	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics
SEMESTER YEAR 4				
Sem 2 July	ENGG4601 Engineering Thesis	MECH3100 Mechanical Systems Design	MATE4302 Electrochemistry & Corrosion	Elective
Sem 1 Feb		ENGG4900 Professional Practice & the Business Environment	CHEE3301 Polymer Engineering	Elective

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