

Mechanical Engineering

Bachelor of Engineering (Honours)



Recommended Study Plan

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) in Mechanical 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	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	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	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	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 Systems Engineering Practice	Elective	MECH3200 Advanced Dynamics & Vibrations	MECH3400 Thermodynamics & Heat Transfer
				MECH3410 Fluid Mechanics
SEMESTER YEAR 4				
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	METR4201 Control Engineering 1	Elective	Elective
Sem 2 July		ENGG4900 Professional Practice & the Business Environment	Elective	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 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 Differential Equations	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	Elective	Elective	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics
Sem 1 Feb	MECH3610 Systems Engineering Principles	Elective	Elective	MECH3400 Thermodynamics & Heat Transfer
SEMESTER YEAR 4				
Sem 2 July	ENGG4601 Engineering Thesis	MECH3100 Systems Engineering Practice	Elective	Elective
Sem 1 Feb		ENGG4900 Professional Practice & the Business Environment	METR4201 Control Engineering 1	Elective

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