

# **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	<a href="#">ENGG1100</a> Professional Engineering	<a href="#">MATH1051</a> Calculus & Linear Algebra I (or) <a href="#">MATH1071</a> Advanced Calculus & Linear Algebra I	<a href="#">ENGG1001</a> Programming for Engineers (or) <a href="#">CSSE1001</a> Introduction to Software Engineering	<a href="#">ENGG1700</a> Statics and Materials
Sem 2 July	<a href="#">ENGG1500</a> Thermodynamics: Energy & the Environment	<a href="#">MATH1052</a> Multivariate Calculus & ODEs (or) <a href="#">MATH1072</a> Advanced Multivariate Calculus & Ordinary	<a href="#">ENGG1300</a> Introduction to Electrical Systems	Elective
SEMESTER YEAR 2				
Sem 1 Feb	<a href="#">MECH2305</a> Intro to Engineering Design & Manufacturing	<a href="#">MATH2001</a> Calculus & Linear Algebra II	<a href="#">MECH2300</a> Structures & Materials	<a href="#">MECH2410</a> Fundamentals of Fluid Mechanics
Sem 2 July	<a href="#">MECH2100</a> Machine Element Design	<a href="#">MECH2210</a> Intermediate Mechanical & Space Dynamics	<a href="#">MECH2700</a> Computational Engineering & Data Analysis	Elective
SEMESTER YEAR 3				
Sem 1 Feb	<a href="#">MECH3610</a> Systems Engineering Principles	<a href="#">MATH2010</a> Analysis of ODEs	<a href="#">STAT2201</a> Analysis of Eng.& Scientific Data	<a href="#">MECH3780</a> Computational Mechanics
Sem 2 July	<a href="#">MECH3100</a> Systems Engineering Practice	Elective	<a href="#">MECH3200</a> Advanced Dynamics & Vibrations	<a href="#">MECH3400</a> Thermodynamics & Heat Transfer
				<a href="#">MECH3410</a> Fluid Mechanics
SEMESTER YEAR 4				
Sem 1 Feb	<a href="#">ENGG4600</a> Engineering Thesis (or) <a href="#">ENGG4552</a> Major Design Project	<a href="#">METR4201</a> Control Engineering 1	Elective	Elective
Sem 2 July		<a href="#">ENGG4900</a> 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	<a href="#">ENGG1100</a> Professional Engineering	<a href="#">MATH1051</a> Calculus & Linear Algebra I (or) <a href="#">MATH1071</a> Advanced Calculus & Linear Algebra I	<a href="#">ENGG1700</a> Statics and Materials	<a href="#">ENGG1001</a> Programming for Engineers (or) <a href="#">CSSE1001</a> Introduction to Software Engineering
Sem1 Feb	<a href="#">ENGG1500</a> Thermodynamics: Energy & the Environment	<a href="#">MATH1052</a> Multivariate Calculus & ODEs (or) <a href="#">MATH1072</a> Advanced Multivariate Calculus & Ordinary Differential Equations	<a href="#">MECH2300</a> Structures & Materials	<a href="#">ENGG1300</a> Introduction to Electrical Systems
SEMESTER YEAR 2				
Sem 2 July	<a href="#">MECH2100</a> Machine Element Design	<a href="#">MATH2001</a> Calculus & Linear Algebra II	<a href="#">MECH2210</a> Intermediate Mechanical & Space Dynamics	<a href="#">MECH2700</a> Computational Engineering & Data Analysis
Sem 1 Feb	<a href="#">MECH2305</a> Intro to Engineering Design & Manufacturing	<a href="#">MATH2010</a> Analysis of ODEs	<a href="#">STAT2201</a> Analysis of Eng.& Scientific Data <a href="#">MECH3780</a> Computational Mechanics	<a href="#">MECH2410</a> Fundamentals of Fluid Mechanics
SEMESTER YEAR 3				
Sem 2 July	Elective	Elective	<a href="#">MECH3200</a> Advanced Dynamics & Vibrations	<a href="#">MECH3410</a> Fluid Mechanics
Sem 1 Feb	<a href="#">MECH3610</a> Systems Engineering Principles	Elective	Elective	<a href="#">MECH3400</a> Thermodynamics & Heat Transfer
SEMESTER YEAR 4				
Sem 2 July	<a href="#">ENGG4601</a> Engineering Thesis	<a href="#">MECH3100</a> Systems Engineering Practice	Elective	Elective
Sem 1 Feb		<a href="#">ENGG4900</a> Professional Practice & the Business Environment	<a href="#">METR4201</a> Control Engineering 1	Elective

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