

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

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