

# Mechanical & Materials Engineering Bachelor of Engineering (Honours) and Master of Engineering



## **Recommended Study Plan**

This study plan is a guide only for students commencing the Bachelor of Engineering (Hons) and Master of Engineering in Mechanical and Materials 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 <a href="Academic Advisor">Academic Advisor</a> 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 Differential Equations	ENGG1300 Introduction to Electrical Systems	Elective					
SEMESTER YEAR 2									
Sem 1 Feb	MATH2001 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	MECH2310 Science & Engineering of Metals	MECH2700 Computational Engineering & Data Analysis					
SEMESTER YEAR 3									
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3610 System Engineering Principles	MECH3780 Computational Mechanics	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data				
Sem 2 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	Elective	Elective					
SEMESTER	YEAR 4								
Sem 1 Feb	CHEE3301 Polymer Engineering	MATE7013 Advanced Manufacturing	METR4201 Control Engineering 1	MECH4304 Net Shape Manufacturing					
Sem 2 July	MATE4302 Electrochemistry and Corrosion	MECH3301 Materials Selection	MECH3410 Fluid Mechanics	Elective					
SEMESTER	R YEAR 5								
Sem 1 Feb	*ENGG7291 Engineering Placement A								
Sem 2 July	AERO4300 Aerospace Composites	ENGG4900 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	MATE7015 Additive Manufacturing					

Refer to the 2023 course list for electives:

Engineering (Honours) and Master of Engineering - my.UQ - The University of Queensland, Australia

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#### July Commencement

SEMESTER	R Y	EAR 1							
Sem 2 July	ENGG1100 Professional Engineering		MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1700 Statics and Materials				
Sem 1 Feb	ENGG1500 Thermodynamics: Energy & the Environment		MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Elective				
SEMESTER	R Y	EAR 2							
Sem 2 July	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2310 Science & Engineering of Metals	MECH2700 Computational Engineering & Data Analysis				
Sem 1 Feb	MATH2001 Calculus & Linear Algebra II		MECH2305 Intro to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics	MECH2300 Structures & Materials				
SEMESTER	SEMESTER YEAR 3								
Sem 2 July	AERO4300 Aerospace Composite		MECH2100 Machine Element Design	MECH3200 Advanced Dynamics & Vibrations	MECH3301 Materials Selection				
Sem 1 Feb	MECH3780 Computational Mechanics		MECH4304 Net Shape Manufacturing	MECH3610 System Engineering Principles	Elective				
SEMESTER	STER YEAR 4								
Sem 2 July	ENGG7701 Engineering Grand Challenges		MECH3100 Mechanical Systems Design	MECH3410 Fluid Mechanics	Elective				
Sem 1 Feb		E3301 Ingineering	MECH3400 Thermodynamics & Heat Transfer	METR4201 Control Engineering 1	MATE7013 Advanced Manufacturing				
SEMESTER YEAR 5									
Sem 2 July	Professional	G4900 Practice & the invironment	MATE4302 Electrochemistry and Corrosion	MATE7015 Additive Manufacturing	Elective				
Sem 1 Feb	*ENGG7291 Engineering Placement A								

Refer to the 2023 course list for electives:

Engineering (Honours) and Master of Engineering - my.UQ - The University of Queensland, Australia