

Mechanical & Aerospace 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 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	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics and Materials	
Sem 2 July	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1300 Introduction to Electrical Systems	Elective	
SEMESTER YEAR 2					
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2001 Calculus & Linear Algebra II	MECH2410 Fundamentals of Fluid Mechanics	MECH2300 Structures & Materials	
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	MECH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data
SEMESTER YEAR 3					
Sem 1 Feb	MECH3610 Systems Engineering Principles	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics	Elective	
Sem 2 July	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	AERO4200 Flight Mechanics & Avionics	
SEMESTER YEAR 4					
Sem 1 Feb	AERO4450 Aerospace Propulsion	AERO4470 Hypersonics	METR4201 Control Engineering 1	Elective	
Sem 2 July	AERO4100 Aero Design & Manufacturing	AERO4300 Aerospace Composites	METR6203 Control Engineering 2	Elective	
SEMESTER YEAR 5					
Sem 1 Feb	ENGG7291 Engineering Placement A				
Sem 2 July	AERO4800 Space Engineering	ENGG4900 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	Elective	

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 YEAR 1				
Sem 2 July	ENGG1100 Professional Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics and Materials
Sem 1 Feb	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Elective
SEMESTER YEAR 2				
Sem 2 July	MATH2001 Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	Elective
Sem 1 Feb	MECH2300 Structures & Materials	MECH2305 Intro to Engineering Design & Manufacturing	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data
				MECH2410 Fundamentals of Fluid Mechanics
SEMESTER YEAR 3				
Sem 2 July	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	AERO4200 Flight Mechanics & Avionics
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics	MECH3610 Systems Engineering Principles	Elective
SEMESTER YEAR 4				
Sem 2 July	AERO4100 Aero Design & Manufacturing	AERO4300 Aerospace Composites	MECH3100 Mechanical Systems Design	ENGG4900 Professional Practice & the Business Environment
Sem 1 Feb	AERO4450 Aerospace Propulsion	AERO4470 Hypersonics	METR4201 Control Engineering 1	Elective
SEMESTER YEAR 5				
Sem 2 July	AERO4800 Space Engineering	METR6203 Control Engineering 2	ENGG7701 Engineering Grand Challenges	Elective
Sem 1 Feb	ENGG7291 Engineering Placement A			

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