

Mechanical Engineering specialisation plus Aerospace Engineering major 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 plus Aerospace Engineering major 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 Differential Equations	ENGG1300 Introduction to Electrical Systems	Advanced/Masters Elective	
SEMESTER YEAR 2					
Sem 1 Feb	MATH2001 Advanced 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	MECH2700 Computational Engineering & Data Analysis	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data
SEMESTER YEAR 3					
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	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	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	AERO4450 Aerospace Propulsion	AERO4470 Hypersonics	METR4201 Control Engineering	
Sem 2 July		AERO4100 Aerospace Design & Manufacturing	AERO4800 Space Engineering (or) AERO4300 Aerospace Composites	ENGG4900 Professional Practice & the Business Environment	

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 2023	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 1 Feb 2024	ENGG1500 Thermodynamics: Energy & the Environment	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	MECH2300 Structures & Materials	MECH2305 Intro to Engineering Design & Manufacturing	
SEMESTER		YEAR 2			
Sem 2 July 2024	MATH2001 Advanced Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	MECH2100 Machine Element Design	
Sem 1 Feb 2025	ENGG1300 Introduction to Electrical Systems	Elective	MECH2410 Fundamentals of Fluid Mechanics	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng.& Scientific Data
SEMESTER		YEAR 3			
Sem 2 July 2025	AERO4200 Flight Mechanics & Avionics	MECH3100 Mechanical Systems Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	
Sem 1 Feb 2026	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	Elective	
SEMESTER		YEAR 4			
Sem 2 July 2026	*ENGG4601 Engineering Thesis	AERO4100 Aerospace Design & Manufacturing	AERO4800 Space Engineering or AERO4300 Aerospace Composites	ENGG4900 Professional Practice & the Business Environment	
Sem 1 Feb 2027		METR4201 Control Engineering	AERO4450 Aerospace Propulsion	AERO4470 Hypersonics	

*Students who wish to complete ENGG4552 Major Design Project should contact an Academic Advisor to discuss alterations to the standard guide to allow this.

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