

2024 Commencement Mechanical Engineering Specialisation with a Major in Aerospace Engineering Bachelor of Engineering (Honours)



Recommended Study Plan

This study plan is a **guide only** for students commencing the Bachelor of Engineering (Hons) in the Mechanical Engineering specialisation with a major in Aerospace Engineering major in 2024. Please note that all course selections must adhere to the 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](#).

Compulsory Core #8	Compulsory Specialisation #36	Preparatory courses or First Year or General Elective #0-#4
	#12 Compulsory major courses	#4 Aerospace Engineering Elective Courses

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	ENGG1300 Introduction to Electrical Systems	Preparatory Course or First Year or General Elective	
SEMESTER		YEAR 2			
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH2001 Calculus & Linear Algebra II	MECH2300 Structures & Materials	MECH2410 Fundamentals of Fluid Mechanics	
Sem 2 July	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis	Preparatory Course or First Year or General Elective	
SEMESTER		YEAR 3			
Sem 1 Feb	MECH3610 Systems Engineering Principles	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH3400 Thermodynamics & Heat Transfer	MECH3780 Computational Mechanics
Sem 2 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations		AERO4200 – Flight Mechanics & Avionics	MECH3410 Fluid Mechanics
SEMESTER		YEAR 4			
Sem 1 Feb	ENGG4600 Engineering Thesis (or) ENGG4552 Major Design Project	METR4201 Control Engineering 1		AERO4450 – Aerospace Propulsion	Aerospace Elective
Sem 2 July		ENGG4902 Professional Practice & the Business Environment		AERO4100 Aero Design & Manufacturing	Aerospace Elective

July Commencement

SEMESTER YEAR 1				
Sem 2 July	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 Material
Sem 1 Feb	MECH2305 Intro to Engineering Design & Manufacturing	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	MECH2300 Structures & Materials	Preparatory Course or First Year or General Elective
SEMESTER YEAR 2				
Sem 2 July	MECH2100 Machine Element Design	MATH2001 Calculus & Linear Algebra II	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis
Sem 1 Feb	ENGG1500 Thermodynamics: Energy & the Environment	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH2410 Fundamentals of Fluid Mechanics
Preparatory Course or First Year or General Elective				
SEMESTER YEAR 3				
Sem 2 July	MECH3200 Advanced Dynamics & Vibrations	ENGG1300 Introduction to Electrical Systems	MECH3410 Fluid Mechanics	AERO4200 – Flight Mechanics & Avionics
Sem 1 Feb	MECH3610 Systems Engineering Principles	MECH3400 Thermodynamics & Heat Transfer	AERO4450 – Aerospace Propulsion	MECH3780 Computational Mechanics
SEMESTER YEAR 4				
Sem 2 July	ENGG4601 Engineering Thesis	MECH3100 Systems Engineering Practice	AERO4100 - Aero Design & Manufacturing	Aerospace Elective*
Sem 1 Feb		ENGG4901 Professional Practice & the Business Environment	METR4201 Control Engineering 1	Aerospace Elective*

*Refer to course list for details on how to combine electives.

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