

2024 Commencement Mechanical & Aerospace
Engineering
Bachelor of Engineering (Honours)/Master of
Engineering



Recommended Study Plan

This study plan is a **guide only** for students commencing the Bachelor of Engineering (Hons)/ Master of Engineering in Mechanical and Aerospace Engineering 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	#62 Compulsory Courses	(#0-#4) Mechanical BE(Hons)/ME Elective &/or (#0-#4) Mechanical BE(Hons)/ME Masters Elective Courses
	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses	

February Commencement

SEMESTER				
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	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses*
SEMESTER YEAR 2				
Sem 1 Feb	MATH2001 Calculus & Linear Algebra II	MECH2300 Structures & Materials	MECH2305 Introduction to Engineering Design & Manufacturing	MECH2410 Fundamentals of Fluid Mechanics
Sem 2 July	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics
SEMESTER YEAR 3				
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses*
Sem 2 July	MECH3100 Systems Engineering Practice	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	(#0-#4) Mechanical BE(Hons)/ME Elective &/or (#0-#4) Mechanical BE(Hons)/ME Masters Elective Courses*
Sem 2 July	AERO4100 Aero Design & Manufacturing	AERO4300 Aerospace Composites	METR6203 Control Engineering 2	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses*
SEMESTER	YEAR 5			
Sem 1 Feb	ENGG7291 – Engineering Placement A			
Sem 2 July	AERO4800 Space Engineering	ENGG4902 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	(#0-#4) Mechanical BE(Hons)/ME Elective &/or (#0-#4) Mechanical BE(Hons)/ME Masters Elective Courses*

*Refer to the course list for electives:

[Bachelor of Engineering \(Honours\)/Master of Engineering - my.UQ](http://my.UQ) - The University of Queensland, Australia

July Commencement

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	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses	

SEMESTER		YEAR 1		
Sem 2 July	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1700 Statics and Materials	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1500 Thermodynamics: Energy & the Environment	MECH2300 Structures & Materials
SEMESTER		YEAR 2		
Sem 2 July	ENGG1300 Introduction to Electrical Systems	MATH2001 Analysis of Ordinary Differential Equations	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2700 Computational Engineering & Data Analysis
Sem 1 Feb	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data	MECH2305 Introduction to Engineering Design & Manufacturing	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses*
SEMESTER		YEAR 3		
Sem 2 July	AERO4200 Flight Mechanics & Avionics	MECH2100 Machine Element Design	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	METR4201 Control Engineering 1
SEMESTER		YEAR 4		

Sem 2 July	AERO4100 Aero Design & Manufacturing	AERO4300 Aerospace Composites	MECH3100 Mechanical System Design	METR6203 Control Engineering 2
Sem 1 Feb	ENGG7291 – Engineering Placement A			
SEMESTER YEAR 5				
Sem 2 July	AERO4800 Space Engineering	ENGG4902 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	(#0-#4) Prep Science/Mathematic Courses &/or (#0-#4) First Year Eng Elective Courses &/or (#0-#6) Mechanical BE(Hons)/ME Elective &/or (#0-#6) Mechanical BE(Hons)/ME Masters Elective Courses*
Sem 1 Feb	AERO4450 Aerospace Propulsion	AERO4470 Hypersonics	(#0-#4) Mechanical BE(Hons)/ME Elective &/or (#0-#4) Mechanical BE(Hons)/ME Masters Elective Courses*	(#0-#4) Mechanical BE(Hons)/ME Elective &/or (#0-#4) Mechanical BE(Hons)/ME Masters Elective Courses*

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