

2024 Commencement Mechanical & Materials
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 Materials 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	#66 Compulsory Courses	(#0-#2) Mechanical & Materials BE(Hons)/ME Elective &/or (#0-#2) Mechanical & Materials 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	CHEE3301 Polymer Engineering	MECH3400 Thermodynamics & Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics
Sem 2 July	MECH2700 Computational Engineering & Data Analysis	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid 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*
SEMESTER YEAR 4				

Sem 1 Feb	MATE7013 Advanced Manufacturing	MECH4304 Net Shape Manufacturing	METR4201 Control Engineering 1	(#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	AERO4300 Aerospace Composites	MATE4302 Electrochemistry and Corrosion	MECH3100 Systems Engineering Practice	MECH3301 Materials Selection
SEMESTER	YEAR 5			
Sem 1 Feb	ENGG7291 – Engineering Placement A			
Sem 2 July	MATE7015 Additive Manufacturing	ENGG4902 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	MATE7014 Advanced Materials Characterisation

*Refer to the course list for electives:

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

July Commencement

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Compulsory Core #8	#66 Compulsory 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	

SEMESTER YEAR 1					
Sem 2 July	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	ENGG1100	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	ENGG1300 Introduction to Electrical Systems	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	MECH2300 Structures & Materials	MECH2305 Introduction to Engineering Design & Manufacturing	
SEMESTER YEAR 2					
Sem 2 July	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	MECH2100 Machine Element Design	MECH2210 Intermediate Mechanical & Space Dynamics	MECH2310 Science & Engineering of Metals	
Sem 1 Feb	MATH2001 Analysis of Ordinary Differential Equations	ENGG1500 Introduction to Electrical Systems	MECH2410 Fundamentals of Fluid 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*	
SEMESTER YEAR 3					
Sem 2 July	MECH2700 Computational Engineering & Data Analysis	MECH3100 Mechanical System Design	MECH3200 Advanced Dynamics & Vibrations	MATH2010 Analysis of ODEs	STAT2201 Analysis of Eng. & Scientific Data
Sem 1 Feb	CHEE3301 Polymer Engineering	MECH3410 Thermodynamics and Heat Transfer	MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	
SEMESTER YEAR 4					

Sem 2 July	AERO4300 Aerospace Composites	MATE4302 Electrochemistry and Corrosion	MECH3301 Materials Selection	MECH3410 Fluid Mechanics
Sem 1 Feb	ENGG7291 – Engineering Placement A			
SEMESTER YEAR 5				
Sem 2 July	MATE7015 Additive Manufacturing	ENGG4902 Professional Practice & the Business Environment	ENGG7701 Engineering Grand Challenges	MATE7015 Advanced Materials Characterisation
Sem 1 Feb	MATE7013 Advanced Manufacturing	MECH4304 Net Shape Manufacturing	METR4201 Control Engineering 1	(#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*

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