

2024 Commencement Mechanical 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 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	#50 Compulsory Courses	Preparatory courses or First Year (#0-#4) or General Elective (#0-#6)
	Mechanical BE(Hons)/ME Elective (#0-16) or Mechanical BE(Hons)/ME Masters Elective Courses (#0-16)	

February Commencement

SEMESTER				
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1700 Statics and Materials	Preparatory Course or First Year or General Elective
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	ENGG1500 Thermodynamics: Energy & the Environment
SEMESTER YEAR 2				
Sem 1 Feb	MECH2305 Introduction 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
Sem 2 July	MECH3100 Systems Engineering Practice	MECH3200 Advanced Dynamics & Vibrations	MECH3410 Fluid Mechanics	General Elective
SEMESTER YEAR 4				
Sem 1 Feb	METR4201 Control Engineering 1	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*
Sem 2 July	METR6203 Control Engineering 2	ENGG4902 Professional Practice & the Business Environment	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*
SEMESTER YEAR 5				

Sem 1 Feb	ENGG7291 – Engineering Placement Semester			
Sem 2 July	ENGG7701 Engineering Grand Challenges	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*

July Commencement

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	ENGG1500 Thermodynamics: Energy & the Environment	ENGG1700 Statics and Materials
Sem 1 Feb	ENGG1100 Professional Engineering		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	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	MECH2410 Fundamentals of Fluid Mechanics	Preparatory Course or First Year or General Elective
SEMESTER YEAR 3					
Sem 2 July	MECH2100 Machine Element Design		MECH3100 Mechanical System Design	MECH3200 Advanced Dynamics & Vibrations	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*
Sem 1 Feb	MECH3400 Thermodynamics & Heat Transfer		MECH3610 Systems Engineering Principles	MECH3780 Computational Mechanics	METR4201 Control Engineering 1
SEMESTER YEAR 4					
Sem 2 July	MECH3410 Fluid Mechanics		METR6203 Control Engineering 2	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*
Sem 1 Feb	ENGG7291 – Engineering Placement A				
SEMESTER YEAR 5					
Sem 2 July	ENGG4902 Professional Practice & the Business Environment		ENGG7701 Engineering Grand Challenges	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*
Sem 1 Feb	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*		Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	Mechanical BE(Hons)/ME Elective or Mechanical BE(Hons)/ME Masters Elective*	General Elective

*Refer to the course list for electives:

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