

2024 Commencement Mechatronic 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)	Compulsory Courses (#50)	Preparatory courses or First Year (#0-#4) or General Elective (#0-#6)
Mechatronic BE(Hons)/ME Elective Courses (#10-14)	Mechatronic BE(Hons)/ME Masters Elective Courses (#2-6)	Mechatronic BE(Hons)/ME Elective Courses OR Mechatronic BE(Hons)/ME Masters 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	ENGG1300 Introduction to Electrical Systems	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	ENGG1700 Statics and Materials	Preparatory Course or First Year or General Elective	
SEMESTER		YEAR 2			
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MECH2300 Structures & Materials	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	MATH2001 Calculus & Linear Algebra II	
Sem 2 July	CSSE2010 Introduction to Computer Systems	MECH2210 Intermediate Mechanical & Space Dynamics	ELEC2004 Circuits, Signals & Systems	MATH2010 Analysis of Ordinary Differential Equations	STAT2201 Analysis of Eng. & Scientific Data
SEMESTER		YEAR 3			
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering I	ELEC3004 Signals, Systems & Control	ELEC2400 Electronic Devices & Circuits	
Sem 2 July	METR4810 Mechatronic System Design Project II	MECH2100 Machine Element Design	METR4202 Robotics & Automation	MECH3200 Advanced Dynamics & Vibrations	

SEMESTER		YEAR 4		
Sem 1 Feb	Mechatronic BE(Hons)/ ME Elective Courses	ENGG4901 Professional Practice & the Business Environment	Mechatronic BE(Hons)/ME Elective Courses	Mechatronic BE(Hons)/ME Elective Courses OR Mechatronic BE(Hons)/ME Masters Elective Courses
Sem 2 July	Mechatronic BE(Hons)/ ME Elective Courses	METR6203 Control Engineering II	Mechatronic BE(Hons)/ME Elective Courses	Mechatronic BE(Hons)/ME Elective Courses OR Mechatronic BE(Hons)/ME Masters Elective Courses
SEMESTER		YEAR 5		
Sem 1 Feb	ENGG7291 Engineering Placement A			
Sem 2 July	Mechatronic BE(Hons)/ ME Elective Courses	Mechatronic BE(Hons)/ ME Masters Elective Courses	ENGG7701 Engineering Grand Challenges	General Elective

Refer to the 2024 course list for Mechatronic Electives:

[Engineering \(Honours\) and Master of Engineering - my.UQ - The University of Queensland, Australia](https://my.uq.edu.au/Engineering%20(Honours)%20and%20Master%20of%20Engineering)

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July Commencement

SEMESTER		YEAR 1			
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus & Linear Algebra I (or) MATH1071 Advanced Calculus & Linear Algebra I	ENGG1300 Introduction to Electrical Systems	Preparatory Course or First Year or General Elective	
Sem 1 Feb	ENGG1001 Programming for Engineers (or) CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calculus & ODEs (or) MATH1072 Advanced Multivariate Calculus & Ordinary Differential Equations	ENGG1700 Statics and Materials	Preparatory Course or First Year or General Elective	
SEMESTER		YEAR 2			
Sem 2 July	MATH2010 Analysis of Ordinary Differential Equations	STAT2201 Analysis of Engineering & Scientific Data	CSSE2010 Introduction to Computer Systems	MECH2210 Intermediate Mechanical & Space Dynamics	MATH2001 Calculus & Linear Algebra
Sem 1 Feb	METR2800 Mechatronic System Design Project I	MECH2300 Structures & Materials	ELEC2300 Fundamentals of Electromagnetism & Electromechanics	ELEC2400 Electronic Devices & Circuits	
SEMESTER		YEAR 3			
Sem 2 July	MECH2100 Machine Element Design	ELEC2004 Circuits, Signals & Systems	MECH3200 Advanced Dynamics & Vibrations	Mechatronic BE(Hons)/ ME Elective Courses	
Sem 1 Feb	METR3100 Control Systems Implementation	METR4201 Control Engineering I	ELEC3004 Signals, Systems & Control	Mechatronic BE(Hons)/ ME Elective Courses	
SEMESTER		YEAR 4			
Sem 2 July	ENGG7701 Engineering Grand Challenges	METR4810 Mechatronic System Design Project II	METR4202 Robotics & Automation	METR6203 Control Engineering II	
Sem 1 Feb	ENGG4901 Professional Practice & the Business Environment	Mechatronic BE(Hons) /ME Elective Courses	Mechatronic BE(Hons)/ ME Masters Elective Courses	Mechatronic BE(Hons)/ME Elective Courses OR Mechatronic BE(Hons)/ME Masters Elective Courses	

SEMESTER		YEAR 5		
Sem 2 July	ENGG7292 Engineering Placement B			
Sem 1 Feb	Mechatronic BE(Hons)/ME Elective Courses	Mechatronic BE(Hons)/ME Elective Courses	Mechatronic BE(Hons)/ME Elective Courses OR Mechatronic BE(Hons)/ME Masters Elective Courses	General Elective

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