Bachelor of Engineering (Honours)

Mechatronic Engineering

No Major

Undergraduate Program - Consists of 64 units
Suggested Study Plans from 2025 Commencement Onwards

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

Program and Course requirements

For the **Bachelor of Engineering (Honours)** full program and course requirements, click here. Make sure to check your program's rules to ensure you are compliant with requirements.

Prerequisite Courses

Students are expected to be aware if a course has prerequisites and must have successfully completed any required prerequisites before enrolling. A prerequisite course provides the foundational knowledge needed to progress to the next course and may be high school subjects or university-level study/courses.

Prerequisites are listed on the course profile and the course page on the Programs and Courses website.

Electives

Depending on your program, you may need to complete compulsory and elective courses.

Electives are courses you can choose, while compulsory courses are mandatory courses that you must study. You must successfully complete all the required units of elective and compulsory courses to meet the program requirements. Your program rules outline how many electives you can study and the types of electives you can choose from.

Search Programs and Courses website for your program to confirm program rules and elective options.

Academic Advice

Academic advisors provide specialist help in course selection and can look at your individual study history to make personalised recommendations on your study plan.

If you need assistance with your program, you can seek Academic Advice.

Additional Information

Course profiles are underlined and hyperlinked to their relevant course page which can be accessed by clicking the underlined text.

Program/General/Breadth/Advanced Electives can be found by clicking the hyperlinked elective text, and selecting "Mechatronic Engineering Plan Options/Mechatronic Engineering No Major Option" options for more information.

CRICOS: 00025B TEQSA: PRV12080

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Suggested Study Plan from **Semester 2, 2025** Commencement Onwards

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AUSTRALIA

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The following is a colour reference guide, including notes around course offerings and units:

Core Courses	Specialisation	Program Electives
General Electives	Breadth Electives	Advanced Electives
Extension Courses		

1 & 2 — Course offered in both Semester 1 & 2

X units — This course does not consist of 2 units

! — Elective may be substituted for another Elective type as per Program requirements

YEAR 1

Sem 2 July	ENGG1100 Professional Engineering (1 & 2)	MATH1051 Calculus and Linear Algebra I (1 & 2)	ENGG1300 Introduction to Electrical Systems (1 & 2)	GENERAL ELECTIVE (1 & 2) OR PROGRAM ELECTIVE (1 & 2)
Sem 1 Feb	ENGG1001 Programming for Engineers (1 & 2)	MATH1052 Multivariate Calc & Ordinary Differential Equations (1 & 2)	ENGG1700 Statics and Materials (1 & 2)	GENERAL ELECTIVE (1 & 2) OR PROGRAM ELECTIVE (1 & 2)

YEAR 2

Sem 2 July	MATH2001 Calculus & Linear Algebra II (1 & 2)	MATH2010[1] 1 unit (1 & 2) STAT2201[1] 1 unit (1 & 2)	MECH2210 Intermediate Mechanical and Space Dynamics	ELEC2004 Circuits, Signals and Systems
Sem 1 Feb	CSSE2010 Introduction to Computer Systems (1 & 2)	METR2800 Mechatronic System Design Project 1	MECH2300 Structures and Materials	ELEC2300 Fundamentals of Electro-magnetism/mechanics

YEAR 3

Sem 2 July	MECH2100 Machine Element Design	METR4810 Mechatronic System Design Project II	MECH3200 Advanced Dynamics and Vibrations	GENERAL ELECTIVE !
Sem 1 Feb	METR3100 Control System Implementation	METR4201 Control Engineering 1	ELEC2400 Electronic Devices and Circuits	ELEC3004 Signals, Systems and Control

YEAR 4

Sem 2 July	METR4912 Thesis/Design Project (4 units, 1 & 2)	METR4202 Robotics and Automation	METR6203 Control Engineering 2	BREADTH ELECTIVE !
Sem 1 Feb		ENGG4901[2] Professional Practice and the Business Environment A (1 & 2)	ADVANCED ELECTIVE	ADVANCED ELECTIVE

NOTES

[1] MATH2010: Analysis of Ordinary Differential Equations, STAT2201: Analysis of Engineering & Scientific Data
[2] Offered in Semester 2 under the course code ENGG4902, Professional Practice and the Business Environment B

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Students must follow the program rules and requirements listed on the my.UQ website. Future course offerings are subject to change. Seek academic advice if you are undertaking a dual degree, have any questions or if you fail any courses.

Published: July 2025