Bachelor of Engineering (Honours)

Mechatronic Engineering
Computer Engineering 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.

CRICOS: 00025B TEQSA: PRV12080

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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 | Major

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

X units — This course does not consist of 2 units

YEAR 1

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

YEAR 3

Sem 1 Feb	METR3100 Control System Implementation	METR4201 Control Engineering 1	CSSE2002 Programming in the Large (1 & 2)	CSSE2310 Computer Systems Principles and Programming (1 & 2)
Sem 2 July	MECH2100 Machine Element Design	METR4202 Robotics and Automation	CSSE3010 Embedded Systems Design and Interfacing (1 & 2)	MECH3200 Advanced Dynamics and Vibrations

YEAR 4

Sem 1 Feb	METR4911 Thesis/Design Project (4 units, 1 & 2)	ENGG4901[2] Professional Practice and the Business Environment A (1 & 2)	ELEC3004 Signals, Systems and Control	CSSE4011 Advanced Embedded Systems
Sem 2 July		METR4810 Mechatronic System Design Project II	COMP3506 Algorithms and Data Structures	CSSE4010 Digital System Design

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

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.

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