

Bachelor of Engineering (Honours)

Electrical Engineering

Biomedical 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.

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

Core Courses	Specialisation	Program Electives
General Electives	Major	



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	MATH1051 Calculus and Linear Algebra I	ENGG1300 Introduction to Electrical Systems	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 2 July	CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calc & Ordinary Differential Equations	PROGRAM ELECTIVE	GENERAL ELECTIVE OR PROGRAM ELECTIVE

YEAR 2

Sem 1 Feb	CSSE2010 Introduction to Computer Systems	MATH2001 Calculus & Linear Algebra II	ELEC2300 Fundamentals of Electro-magnetism/mechanics	ELEC2400 Electronic Devices and Circuits
Sem 2 July	ENGG2800 Team Project I	CSSE2310 Computer Systems Principles and Programming	MATH2010 ¹ STAT2201 ¹	ELEC2004 Circuits, Signals and Systems

YEAR 3

Sem 1 Feb	CSSE3010 Embedded Systems Design and Interfacing	ELEC3004 Signals, Systems and Control	METR4201 Control Engineering 1	BIOE1001 Principles of Biomedical and Bioprocess Engineering
Sem 2 July	ENGG3800 Team Project II	ELEC3100 Electromagnetic Field & Wave Fundamentals	BIOM1052 Integrated Anatomy and Physiology	BIOE3001 Quantitative Methods in Biomedical Engineering

YEAR 4

Sem 1 Feb	REIT4841 Research and Development Methods and Practice	ENGG4901 ² Professional Practice and the Business Environment A	BIOE6901 Medical Device Engineering	PROGRAM ELECTIVE
Sem 2 July		BIOE4305 Biomaterials: Materials in Medicine	BIOE6403 Biomedical Instrumentation	BIOE6601 Medical Imaging

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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General Electives	Major	



Course offered in both Semester 1 & 2

X units

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YEAR 1

Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus and Linear Algebra I	ENGG1300 Introduction to Electrical Systems	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 1 Feb	CSSE1001 Introduction to Software Engineering	MATH1052 Multivariate Calc & Ordinary Differential Equations	BIOE1001 Principles of Biomedical and Bioprocess Engineering	GENERAL ELECTIVE OR PROGRAM ELECTIVE

YEAR 2

Sem 2 July	CSSE2010 Introduction to Computer Systems	MATH2001 Calculus & Linear Algebra II	MATH2010¹ 1 unit	ELEC2004 Circuits, Signals and Systems
Sem 1 Feb	ENGG2800 Team Project I	CSSE2310 Computer Systems Principles and Programming	ELEC2300 Fundamentals of Electromagnetism/mechanics	ELEC2400 Electronic Devices and Circuits

YEAR 3

Sem 2 July	CSSE3010 Embedded Systems Design and Interfacing	ELEC3100 Electromagnetic Field & Wave Fundamentals	BIOM1052 Integrated Anatomy and Physiology	BIOE3001 Quantitative Methods in Biomedical Engineering
Sem 1 Feb	ENGG3800 Team Project II	ELEC3004 Signals, Systems and Control	METR4201 Control Engineering 1	BIOE6901 Medical Device Engineering

YEAR 4

Sem 2 July	REIT4842 Research and Development Methods and Practice	BIOE4305 Biomaterials: Materials in Medicine	BIOE6403 Biomedical Instrumentation	BIOE6601 Medical Imaging
Sem 1 Feb		ENGG4901² Professional Practice and the Business Environment A	PROGRAM ELECTIVE	PROGRAM ELECTIVE

NOTES

¹ MATH2010: Analysis of Ordinary Differential Equations; STAT2201: Analysis of Engineering & Scientific Data

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