

Bachelor of Engineering (Honours) and Master of Engineering

Chemical Engineering

Undergraduate Program - Consists of 80 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) and Master of Engineering** 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.

Published: July 2025

Bachelor of Engineering (Honours) and Master of Engineering

Chemical Engineering

Undergraduate Program - Consists of 80 units

Suggested Study Plan from Semester 1, 2025 Commencement Onwards

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

Core Courses	Field of Study	Program Electives
General Electives		



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

	Course offered in both Semester 1 & 2
	This course does not consist of 2 units
	Elective may be substituted for another Elective type as per Program requirements

YEAR 1				
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus and Linear Algebra I	CHEM1100 Chemistry 1	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 2 July	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calc & Ordinary Differential Equations	ENGG1500 Thermodynamics: Energy and the Environment	GENERAL ELECTIVE OR PROGRAM ELECTIVE
YEAR 2				
Sem 1 Feb	CHEE2001 Process Principles	CHEE2003 Fluid and Particle Mechanics	CHEE2010 Engineering Investigation and Statistical Analysis	CHEM2056 Physical Chemistry for Engineering
Sem 2 July	CHEE2020 Process Equipment and Control Systems	CHEE2030 Chemical Thermodynamics	CHEE2040 Heat and Mass Transfer	GENERAL ELECTIVE OR PROGRAM ELECTIVE
YEAR 3				
Sem 1 Feb	CHEE3004 Unit Operations	CHEE3005 Reaction Engineering	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
Sem 2 July	CHEE3007 Process Modelling and Control	CHEE3020 Process Systems Analysis	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
YEAR 4				
Sem 1 Feb	ENGG4901¹ Professional Practice and the Business Environment A	CHEE4002 Risk in Process Industries	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
Sem 2 July	ENGG7292 Engineering Placement B 8 units			
YEAR 5				
Sem 1 Feb	CHEE7111 Advanced Process and System Modelling	CHEE7112 Integrated Safety Design and Management	CHEE7113 Whole of Process Optimisation and Control	BE(Hons)/ME ELECTIVE
Sem 2 July	CHEE7103 Chemical Engineering ME Design Project 4 units		BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE

NOTES

¹ 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.

Published: July 2025

Bachelor of Engineering (Honours) and Master of Engineering

Chemical Engineering

Undergraduate Program - Consists of 80 units

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

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

Core Courses	Field of Study	Program Electives
General Electives		



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

	Course offered in both Semester 1 & 2
	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	MATH1051 Calculus and Linear Algebra I	CHEM1100 Chemistry 1	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 1 Feb	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calc & Ordinary Differential Equations	ENGG1500 Thermodynamics: Energy and the Environment	GENERAL ELECTIVE OR PROGRAM ELECTIVE
YEAR 2				
Sem 2 July	CHEE2001 Process Principles	CHEE2020 Process Equipment and Control Systems	CHEE2030 Chemical Thermodynamics	CHEE2040 Heat and Mass Transfer
Sem 1 Feb	CHEE2003 Fluid and Particle Mechanics	CHEE2010 Engineering Investigation and Statistical Analysis	CHEM2056 Physical Chemistry for Engineering	GENERAL ELECTIVE OR PROGRAM ELECTIVE
YEAR 3				
Sem 2 July	CHEE3007 Process Modelling and Control	CHEE3020 Process Systems Analysis	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
Sem 1 Feb	CHEE3004 Unit Operations	CHEE3005 Reaction Engineering	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
YEAR 4				
Sem 2 July	CHEE7103 Chemical Engineering ME Design Project	4 units	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
Sem 1 Feb	ENGG4901¹ Professional Practice and the Business Environment A	CHEE4002 Risk in Process Industries	BE(Hons)/ME BREADTH ELECTIVE	BE(Hons)/ME ELECTIVE
YEAR 5				
Sem 2 July	ENGG7292 Engineering Placement B	8 units		
Sem 1 Feb	CHEE7111 Advanced Process and System Modelling	CHEE7112 Integrated Safety Design and Management	CHEE7113 Whole of Process Optimisation and Control	BE(Hons)/ME ELECTIVE

NOTES

¹ 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.

Published: July 2025