2025 Dual Degree Study Planner
Bachelor of Engineering (Honours) / Bachelor of Mathematics

Important Information

It is your responsibility to ensure that you complete all the requirements for each component of this dual program in order to graduate with both degrees. The following information is designed to help you plan your enrolment to meet this goal.

The Program Requirements, available on UQ's Programs and Courses website, outline the requirements to complete the dual program.

Program Guidelines

Bachelor of Engineering (Honours) (BE(Hons)) component:

- Students without Queensland Senior Maths C or Specialist Mathematics should complete MATH1050 before MATH1051.

- Students must complete a specialisation. In addition, students may choose to complete a major or a minor.

- All common core and compulsory courses must be counted towards the BE(Hons) component of the dual program and substituted in the BMath course list by a course at the same level or higher.

- A student undertaking a BE(Hons) specialisation in Electrical Engineering, Mechanical Engineering or Mechatronic Engineering must complete MATH2100 towards the BMath component, and

  (a) if undertaking a BMath major in Applied Mathematics, Optimisation and Operations Research, Mathematical Artificial Intelligence or Statistics and Mathematical Data Science, must complete STAT1301 towards the BE(Hons) component in place of MATH2010 and STAT2201; or

  (b) if undertaking a BMath major in Mathematical Physics or Pure Mathematics, must complete STAT2203 towards the BE(Hons)component in place of MATH2010 and STAT2201.

- A student undertaking a BE(Hons) specialisation in Chemical Engineering, Civil Engineering or Software Engineering and a BMath major in Applied Mathematics, Optimisation and Operations Research, Mathematical Artificial Intelligence or Statistics and Mathematical Data Science must complete STAT1301 towards the BE(Hons) component and is exempt from the requirement to gain credit for STAT2203, CIVL2530 or CHEE2010 towards the BE(Hons).

- First Year BE(Hons) students can find further program planning information via the Faculty current student resources page: Get started in Engineering - Faculty of Engineering, Architecture and Information Technology - University of Queensland

- BE(Hons) students should discuss their enrolment plan with an academic adviser. The list of academic advisers is available at: https://www.eait.uq.edu.au/current-students/manage-your-program/academic-advice

Bachelor of Mathematics (BMath) component:

- Students must complete a major.

Selecting Plans in mySI-net

A plan is a prescribed combination of courses within a program being either a field of study, major, extended major, specialisation, minor or extended minor.

Ensure the plans for your program are correctly listed in mySI-net. If you require assistance selecting your plan(s), follow these instructions.

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Cross-listed Courses

A course can only count towards one dual program component. If the course is compulsory in one program, it must be counted towards that program component and you should select another course from the other course list at the same level or higher. If a course is compulsory in both programs, you may select which program it will count towards, and select another course at the same level or higher from the other program course list, noting that the highest graded courses will count towards the BE(Hons) component and the balance towards the BMath component. Please check the special rules for the dual program as they may outline specific requirements for course substitutions.

Regardless of any possible cross-listing between programs, to meet the program requirements for the BMath component of your dual program the major must include 8 units of courses level 3 or higher taken from and counting only towards that major's course list.

Course Scheduling

This planner is intended as a guide only and is based on current scheduling of courses. Students should note that scheduling can change from year to year. You are advised to check the scheduling for the current year and contact the relevant Faculty for advice if course scheduling has changed.

Exiting Early

Students exiting early with one component of a dual degree must complete the single degree requirements of that component. Students will then be required to follow the single degree rules to complete the remaining component from that dual degree.

Global Experience

If you are planning on completing an overseas exchange, you may have to amend this plan. Students who would like an exchange experience in their program are encouraged to seek advice early in their program and be aware of the exchange deadlines: https://employability.uq.edu.au/global-experiences.

Require Further Assistance?

If you require assistance planning your program or have concerns about meeting program requirements, contact the relevant Faculty for advice:

Program	Faculty	Contact Information
Bachelor of Engineering (Hons)	EAIT Faculty	enquiries@eait.uq.edu.au
Bachelor of Mathematics	Science Faculty	enquire@science.uq.edu.au

Study Planners

1. Semester 1 Commencement | Full Time Study Planner

2. Semester 2 Commencement | Full Time Study Planner

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Semester 1 Commencement | Full Time Study Planner

		BACHELOR OF ENGINEERING (HONS)			BACHELOR OF MATHEMATICS		
		Course Code	Course Name	Units	Course Code	Course Name	Units
Year 1	Semester 1	**ENGG1100**	Professional Engineering	2	**MATH1081**	Advanced Discrete Mathematics	2
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
	Semester 2		BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
Year 2	Semester 1		Course relevant to chosen Specialisation	2	**MATH2400**	Mathematical Analysis	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
	Semester 2		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
Year 3	Semester 1		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
	Semester 2		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Major, Minor or specified elective Course	2			
Year 4	Semester 1		Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
			Major, Minor or specified elective Course	2			
			Major, Minor or specified elective Course	2			

Year 4	Semester 2	Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
		Major, Minor or specified elective Course	2			
		Major, Minor or specified elective Course	2			
Year 5	Semester 1	Major, Minor or specified elective Course	2		Level 3 course from BMath major list	2
		Major, Minor or specified elective Course	2		Level 3 course from BMath major list	2
	Semester 2	Course relevant to chosen Specialisation	4		Level 3 course from BMath major list	2
		Major, Minor or specified elective Course	2			

* Courses chosen in the engineering component of the first year of the program depend on intended specialisation and whether it is necessary to complete MATH1050 prior to MATH1051. All students must complete ENGG1001 (or CSSE1001), MATH1051 (or MATH1071), MATH1052 (or MATH1072), and at least one of ENGG1300, ENGG1500 and ENGG1700. Refer to to https://www.eait.uq.edu.au/current-students/information-new-students/undergraduate-information-new-students/get-started-engineering for further details about how to choose these courses.

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Semester 2 Commencement | Full Time Study Planner

		BACHELOR OF ENGINEERING (HONS)			BACHELOR OF MATHEMATICS		
		Course Code	Course Name	Units	Course Code	Course Name	Units
Year 1	Semester 2	ENGG1100	Professional Engineering	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2			
	Semester 1		BE(Hons) Core Course or Course relevant to chosen specialisation*	2	MATH1081	Advanced Discrete Mathematics	2
			BE(Hons) Core Course or Course relevant to chosen specialisation*	2	MATH2400	Mathematical Analysis	2
Year 2	Semester 2		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
	Semester 1		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
Year 3	Semester 2		Course relevant to chosen Specialisation	2		Level 2 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Course relevant to chosen Specialisation	2			
	Semester 1		Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
			Course relevant to chosen Specialisation	2			
			Major, Minor or specified elective Course	2			
Year 4	Semester 2		Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
			Major, Minor or specified elective Course	2			
			Major, Minor or specified elective Course	2			

Year	Semester		Course	Units		Course	Units
Year 4	Semester 2		Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
			Major, Minor or specified elective Course	2			
			Major, Minor or specified elective Course	2			
Year 5	Semester 2		Course relevant to chosen Specialisation	2		Level 3 course from BMath major list	2
			Major, Minor or specified elective Course	2			
			Major, Minor or specified elective Course	2			
	Semester 1		Course relevant to chosen Specialisation	4		Level 3 course from BMath major list	2
			Major, Minor or specified elective Course	2			

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