Bachelor of Engineering (Hons)/Bachelor of Mathematics
2019 Dual Degree Program Structure

It is important that you read and understand the following information.

To be eligible to enrol in a dual degree program you must ensure that you satisfy the entry requirements for both programs.

Once enrolled it is your responsibility to ensure that you complete all the requirements for each section 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. Further information can be found in the Official Rules and Course lists under the **Program Rules and Requirements** link for each program in the Programs and courses website: https://my.uq.edu.au/programs-courses/

You may need to amend this plan depending on your choice of major. You are not required to submit this program plan for approval. However, if you have any questions or concerns about meeting program requirements, especially when you are nearing the end of your program, please contact the relevant Faculty for advice.

Please note: 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.

PROGRAM GUIDELINES

You must complete a total of 80 units for this dual degree program**.**

Restrictions apply to enrolment in ECON1050, ECON1310, PHYS1001, STAT1201, STAT1301. Details of specific course restrictions are available at: http://www.eait.uq.edu.au/be-dual-programs and https://www.eait.uq.edu.au/bachelor-engineering-electives

Bachelor of Engineering (Hons) Requirements:

❖ 60 units from the BE(Hons) course list, comprising–
   (i) 52 to 60 units from the BE(Hons) course list for a BE(Hons) field; and
   (ii) the balance, if any, from courses on the BE(Hons) course list or part B and/or part C of the BMath course list or other courses approved by the executive dean.
❖ A student must undertake a field of study in the BE(Hons) component of the dual program.
❖ The prerequisites required for the major must be completed as either compulsory/elective courses towards the BE(Hons) program. Please consult with an academic advisor to assist with your course selection
❖ BE(Hons) students should discuss their enrolment plan with an academic adviser.
❖ The list of academic advisers is available at - http://www.eait.uq.edu.au/eng-academic-advice

Bachelor of Mathematics Requirements:
❖ 20 units from the BMath course list, comprising–
   (i) 6 to 8 units from part A of the BMath course list being all MATH coded courses which are not common compulsory courses; and
   (ii) the balance from part B or part C of the BMath course list or a combination of both.
❖ A student must gain 8 units for late year) courses from part A or part B of the BMath course list or a combination of both.
❖ "Late year" refers to courses at level 3 or higher.
❖ A student may not undertake the BMath component of the dual program in any field.

- ❖ A list of recommended BMath study plans for each major is available at:
- ❖ https://planner.science.uq.edu.au/content/bachelor-of-science

Please contact the Faculty of Science on (07) 3365 1888 for more information.

Special rules
Courses in both course lists
(1) All common compulsory courses must be counted towards the BE(Hons) component of the dual program.
(2) Where a course is compulsory in one component of the dual program but not in the other, then it must be counted towards the component in which it is compulsory.
(3) MATH1050, if taken, must be counted towards the BMath component.
(4) When there is a choice as to which courses count toward each component of the dual program then the highest graded courses shall count towards the BE(Hons) component and the balance toward the BMath component.

Course Substitutions
(1) A student who is undertaking a BE(Hons) field which lists MATH2000 as compulsory is required to instead complete MATH2001 towards the BE(Hons) component.
(2) A student who is undertaking a BE(Hons) field which lists MATH2010 and either STAT2201 or STAT2202 as compulsory may instead complete MATH2100 towards the BMath component and STAT2203 towards the BE(Hons) component.

BACHELOR OF ENGINEERING (HONS)/BACHELOR OF MATHEMATICS
DUAL DEGREE PROGRAM STRUCTURE
You can use this outline to plan your program structure.

BACHELOR OF ENGINEERING (HONS)		BACHELOR OF MATHEMATICS	
Please consult your academic adviser for course selection	Units	Please consult your academic adviser for course selection	Units
YEAR ONE		**YEAR ONE**	
Semester 1		**Semester 1**	
ENGG1100 Engineering Design (MATH1051 or MATH1071) # Part A courses from chosen major (Refer to the First Year Engineering guide or Course List)	2 2 4	MATH1050 Mathematical Foundations (if required) #	2
Semester 2		**Semester 2**	
ENGG1200 Engineering Modelling & Problem Solving MATH1051 or (MATH1052 or MATH1072) # Part A course(s) from chosen major (Refer to the First Year Engineering guide or Course List)	2 2 2	MATH1061 Discrete Mathematics†	2
Summer Semester		*Summer Semester*	
YEAR TWO		**YEAR TWO**	
Semester 1		**Semester 1**	
Part A courses from chosen major including MATH2001 Advanced Calculus & Linear Algebra II*	6 - 8	MATH2400 Mathematical Analysis or MATH2401 Mathematical Analysis and Advanced Topics	2
Semester 2		**Semester 2**	
Part A courses from chosen major	6 - 8	Part B or C BMath course	2
Summer Semester		*Summer Semester*	
YEAR THREE		**YEAR THREE**	
Semester 1		**Semester 1**	
Part A courses from chosen major	6 - 8	Part (B or C) BMath course if MATH2400 or 2401 has been completed	2
Semester 2		**Semester 2**	
Part A courses from chosen major	6 - 8	Part (B or C) BMath course	2
Summer Semester		*Summer Semester*	
YEAR FOUR		**YEAR FOUR**	
Semester 1		**Semester 1**	
Part A from chosen major and balance from electives	4 - 8	MATH3401 Complex Analysis Balance from Part (B or C) BMath courses	2 0 - 2
Semester 2		**Semester 2**	
Part A from chosen major an balance from electives	4 - 8	Part (B or C) BMath courses	0 - 4
Summer Semester		*Summer Semester*	
YEAR FIVE		**YEAR FIVE**	
Semester 1		**Semester 1**	
Any remaining advanced engineering electives required to complete major or electives	2 - 6	Part (B or C) BMath courses	2 - 6
Semester 2		**Semester 2**	
ENGG4900 Professional Practice and the Business Environment (compulsory Part A course in all majors)	2	Part (B or C) BMath courses	6
Total	60	Total (Ensure minimum of 8 units Late Year are included)	20

***Please Note:** Summer Semester is optional.*
* MATH2001 must be completed by civil and software based engineering specialisations as part of the BMath.
† MATH1061 counts towards the BE(Hons) component for software engineering students.
Please Note: MATH1050, if taken, must be counted towards the BMath component.
Please ensure your BE(Hons) major is correctly listed on mySI-net.