

# Bachelor of Mathematics/Bachelor of Information Technology

## 2020 Dual Degree Program Structure

It is important that you read and understand the following information about your dual program.

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

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/program.html?acad\\_prog=2403](https://my.uq.edu.au/programs-courses/program.html?acad_prog=2403).

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 64 units for this dual degree program.

#### **Bachelor of Mathematics requirements:**

- ❖ 32 units from the BMath course list, comprising–
  - (i) 14 units from Part A; and
  - (ii) 14 units from Part B or Part C or a combination of both; and
  - (iii) 4 units from the BMath course list, Part A or Part B of the BSc course list, or courses approved by the Associate Dean (Academic).
- ❖ Students may complete a BMath major from Part B by completing an approved combination of 16 units.
- ❖ Students must complete a minimum of 8 units of late year (Level 3 or higher) courses from Part A and/or Part B and no more than 24 units of Level 1 courses can be included in the program.
- ❖ Recommended study plans for each BMath major can be found at: <http://planner.science.uq.edu.au/content/bachelor-of-mathematics>.
- ❖ Please contact the Faculty of Science on (07) 3365 1888 for more information.

#### **Bachelor of Information Technology requirements:**

- ❖ 32 units from the BInfTech course list, comprising–
  - (i) 12 units from Part A1, excluding MATH1061; and
  - (ii) 4 units from Part A2; and
  - (iii) Either:
    - (A) 14 units for a permitted BInfTech major; or
    - (B) 14 units, comprising–
      - (a) 6 units from Part B, with at least 2 units from Part B1; and
      - (b) 8 units from Part C; and
  - (iv) 2 units from Part B or Part C of the BInfTech List.
- ❖ Of the 32 units required for the BInfTech, 12 units must be late year (level 3 or higher) courses.
- ❖ BInfTech students should discuss their enrolment plan with an academic adviser. The list of academic advisers is available at: <http://www.itee.uq.edu.au/academic-advice>.

### Special rules

Courses in both course lists

1. Where a course is compulsory in one component of the dual program but not the other, then it must be counted towards the component in which the course is compulsory.

## BACHELOR OF MATHEMATICS/BACHELOR OF INFORMATION TECHNOLOGY 2020 DUAL DEGREE PROGRAM PLANNER

*You can use this outline to plan your program structure.*

BACHELOR OF MATHEMATICS		BACHELOR OF INFORMATION TECHNOLOGY	
Courses	Units	Courses	Units
<b>Please consult your academic adviser for course selection</b>		<b>Please consult your academic adviser for course selection</b>	
<b>YEAR ONE</b>		<b>YEAR ONE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH1051 Calculus & Linear Algebra* +	2	DECO1100 Design Thinking	2
MATH1061 Discrete Mathematics	2	DECO1400 Introduction to Web Design	2
<b>Semester 2</b>		<b>Semester 2</b>	
MATH1052 Multivariate Calculus & Ordinary Differential Equations ++	2	CSSE1001 Introduction to Software Engineering	2
STAT1301 Advanced Analysis of Scientific Data	2	DECO1800 Design Computing Studio 1	2
<b>YEAR TWO</b>		<b>YEAR TWO</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH2001 Advanced Calculus and Linear Algebra	2	INFS1200 Introduction to Information Systems	2
MATH2400 Mathematical Analysis +++	2	Course from Part B or Part C; or a BInfTech major course**	2
<b>Semester 2</b>		<b>Semester 2</b>	
Course from the BMath course list or Part A or B of BSc course list	2	Course from Part B or Part C; or a BInfTech major course**	2
Level 2 course from BMath Part B or C course list	2	Course from Part B or Part C; or a BInfTech major course**	2
<b>YEAR THREE</b>		<b>YEAR THREE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
Course from the BMath course list or Part A or B of BSc course list	2	Course from Part B or Part C; or a BInfTech major course**	2
Level 2 course from BMath Part B or C course list	2	Course from Part B or Part C; or a BInfTech major course**	2
<b>Semester 2</b>		<b>Semester 2</b>	
Level 2 or 3 course from BMath Part B or C course list	2	DECO2800 Design Computing Studio 2	2
Level 2 or 3 course from BMath Part B or C course list	2	Course from Part B or Part C; or a BInfTech major course**	2
<b>YEAR FOUR</b>		<b>YEAR FOUR</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH3401 Complex Analysis	2	DECO3800 Design Computing Studio 3 – Propose	2
Level 3 course from BMath Part B course list	2	Course from Part B or Part C; or a BInfTech major course**	2
<b>Semester 2</b>		<b>Semester 2</b>	
Level 3 course from BMath Part B course list	2	DECO3801 Design Computing Studio 3 – Build	2
Level 3 course from BMath Part B course list	2	**Course from Part B and/ Part C BInfTech major	2
<b>Total (refer to BMath course list and rules for major details)</b>	<b>32</b>	<b>Total</b>	<b>32</b>

\*Students without Queensland Senior Maths C should complete MATH1050 before MATH1051.

\*\*Students should complete either 14 units towards a BInfTech major, or a combination of 4 units from Part B and 2 units from Part B1 and 8 units from Part C.

+ Level 1 Advanced course **MATH1071** Advanced Calculus & Linear Algebra also available

++ Level 1 Advanced course **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations also available

+++ Level 2 Advanced course **MATH2401** Mathematical Analysis and Advanced Topics also available

*Please note: Summer Semester is optional.*

**Please ensure that your BMath (if applicable) BInfTech majors are listed correctly in mySI-net.**