

# Bachelor of Mathematics/Bachelor of Education (Secondary) 2019 Dual Program

**Please ensure that you read and understand the following important information about your dual program.**

The Bachelor of Mathematics / Bachelor of Education (Secondary) program is a four year pre-service teacher qualification that develops specialist teachers across the year levels 7 – 12 (secondary schooling phase).

It is your responsibility to ensure 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 are not required to submit this program plan for approval. However, if you have any concerns about meeting degree requirements, especially in the year prior to your Professional Year, please contact the relevant Faculty for advice. For advice on the BMath component of your degree, including advice on majors and courses, please contact the Faculty of Science. For advice on the BEd(Sec) component of your degree, including information on teaching area requirements, please contact the Faculty of Humanities and Social Sciences or the School of Education.

## PROGRAM GUIDELINES

The Bachelor of Mathematics / Bachelor of Education (Secondary) dual program consists of the Bachelor of Mathematics which provides the content knowledge for a Mathematics teaching area and the Bachelor of Education (Secondary) which provides the skills, knowledge and practical experience required for teacher registration and employment.

**Please note:** if you are admitted into this dual program mid-year or obtain credit from previous studies you will need to ensure you structure your program so that you are able to enter the final year of Bachelor of Education component in semester 1 – the final year of the BEd program is a year-long professional year commencing in semester 1 only.

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

32 units towards the BMath component comprising:

- 14 from Part A; and
  - 14 from Part B or Part C or a combination of both; and
  - 4 from the BMath course list, or Part A or Part B of the BSc course list, or courses approved by the Associate Dean (Academic).
- Students may complete a major in an area defined in Part B by completing an approved combination of 16 units.
  - Students must gain 8 units for late year courses from Part A or Part B of the BMath course list or a combination of both.
  - Students must complete the requirements of the BMath and all courses in Part A of the BEd (Sec) before commencing the Professional (final) Year of the BEd (Sec).
  - Please contact the Faculty of Science on (07) 3365 1888 for more information.

Note: A 'Late year' course means a course that is Level 3 or higher.

### ***Bachelor of Education (Secondary) component requirements:***

- 16 units from Part A; and
- 8 units from Part B; and
- 4 units from Part C; and
- 4 units from Part C or Part D

Part A teaches issues pertinent to teaching and schooling and is completed in conjunction with the requirements of the BMath degree. The BEd(Sec) Professional Year (Part B) develops professional expertise required for teaching and can only be commenced when the BMath and BEd(Sec) Part A requirements have been met.

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.

# Bachelor of Mathematics / Bachelor of Education (Secondary)

## 2019 Dual Degree Program Planner

Students with Senior Maths C

BACHELOR OF MATHEMATICS		BACHELOR OF EDUCATION (SECONDARY)	
	Total Units		Total Units
<b>YEAR ONE</b>		<b>YEAR ONE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH1051 Calculus & Linear Algebra* +	2	EDUC1710 A Sociological Orientation to Education	2
MATH1061 Discrete Mathematics	2		
MATH1052 Multivariate Calculus & Ordinary Differential Equations ++ (or can move to sem 2)	2		
<b>Semester 2</b>		<b>Semester 2</b>	
STAT1301 Advanced Analysis of Scientific Data Course from BMath Part B course list Course from BMath Part B course list	2 2 2	EDUC1650 Learning and Development for Educators	2
<i>Summer Semester</i>			
<b>YEAR TWO</b>		<b>YEAR TWO</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH2001 Advanced Calculus and Linear Algebra	2	EDUC2601 Literacies within and across the Curriculum	2
MATH2400 Mathematical Analysis +++ Any level course from BMath Part B or C course list or Part A or B of the BSc course list or other approved elective	2 2		
	2		
<b>Semester 2</b>		<b>Semester 2</b>	
Course from BMath Part B course list Course from BMath Part B course list	2 2	EDUC2604 Teachers as Educational Innovators and Agents of Change EDUC2090 Indigenous Knowledge and Education	2 2
<i>Summer Semester</i>			
<b>YEAR THREE</b>		<b>YEAR THREE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH3401 Complex Analysis Level 3 course from BMath Part B course list Course from BMath Part B course list	2 2 2	EDUC3602 Numeracy across the Curriculum	2
<b>Semester 2</b>		<b>Semester 2</b>	
Level 3 course from BMath Part B course list Level 3 Course from BMath Part B course list	2 2	EDUC3606 Building Inclusive Secondary Classrooms EDUC3605 Building Professional Knowledge	2 2
<i>Summer Semester</i>			
<b>PROFESSIONAL YEAR</b>			
<b>Semester 1</b>		<b>Semester 1</b>	
		EDUC4615 Developing Professional Practice EDUC4620 Teachers as Researchers EDUC4644 Mathematics: Curriculum Studies (year-long course) EDUC4652 Advanced Mathematics: Curriculum Studies (year-long course)	2 2 - -
<b>Semester 2</b>		<b>Semester 2</b>	
		EDUC4607 Assessment for Teaching and Learning EDUC4625 Achieving Professional Engagement EDUC4644 Mathematics: Curriculum Studies (year-long course) EDUC4652 Advanced Mathematics: Curriculum Studies (year-long course)	2 2 4 4
<b>Total (Refer to BMath course list and rules for details on majors)</b>	<b>32</b>		<b>32</b>

+ 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

# Bachelor of Mathematics / Bachelor of Education (Secondary)

## 2019 Dual Degree Program Planner

Students without Senior Maths C

BACHELOR OF MATHEMATICS		BACHELOR OF EDUCATION (SECONDARY)	
	Total Units		Total Units
<b>YEAR ONE</b>		<b>YEAR ONE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH1050 Mathematical Foundations	2	EDUC1710 A Sociological Orientation to Education	2
MATH1061 Discrete Mathematics	2		
<b>Semester 2</b>		<b>Semester 2</b>	
MATH1051 Calculus & Linear Algebra	2	EDUC1650 Learning and Development for Educators	2
MATH1052 Multivariate Calculus & Ordinary Differential Equations	2		
STAT1301 Advanced Analysis of Scientific Data	2		
<i>Summer Semester</i>			
<b>YEAR TWO</b>		<b>YEAR TWO</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH2001 Advanced Calculus and Linear Algebra	2	EDUC2601 Literacies within and across the Curriculum	2
MATH2400 Mathematical Analysis	2		
Course from BMath Part B course list	2		
<b>Semester 2</b>		<b>Semester 2</b>	
Course from BMath Part B course list	2	EDUC2604 Teachers as Educational Innovators and Agents of Change	2
Course from BMath Part B course list	2	EDUC2090 Indigenous Knowledge and Education	2
	2		
<i>Summer Semester</i>			
<b>YEAR THREE</b>		<b>YEAR THREE</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
MATH3401 Complex Analysis	2	EDUC3602 Numeracy across the Curriculum	2
Level 3 course from BMath Part B course list	2		
Course from BMath Part B course list	2		
<b>Semester 2</b>		<b>Semester 2</b>	
Level 3 course from BMath Part B course list	2	EDUC3606 Building Inclusive Secondary Classrooms	2
Level 3 course from BMath Part B course list	2	EDUC3605 Building Professional Knowledge	2
<i>Summer Semester</i>			
		<b>PROFESSIONAL YEAR</b>	
<b>Semester 1</b>		<b>Semester 1</b>	
		EDUC4615 Developing Professional Practice	2
		EDUC4620 Teachers as Researchers	2
		EDUC4644 Mathematics: Curriculum Studies (year-long course)	-
		EDUC4652 Advanced Mathematics: Curriculum Studies (year-long course)	-
<b>Semester 2</b>		<b>Semester 2</b>	
		EDUC4607 Assessment for Teaching and Learning	2
		EDUC4625 Achieving Professional Engagement	2
		EDUC4644 Mathematics: Curriculum Studies (year-long course)	4
		EDUC4652 Advanced Mathematics: Curriculum Studies (year-long course)	4
<b>Total (Refer to BMath course list and rules for details on major)</b>	<b>32</b>		<b>32</b>

*\*Students without Queensland Senior Mathematics C or equivalent should complete MATH1050 before MATH1051.*