

# Bachelor of Mathematics/Bachelor of Economics 2018 Dual Program Structure

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

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 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. For advice on the BMath component of your degree please contact the Faculty of Science. For advice on the BEcon component of your degree please contact the Faculty of Business, Economics and Law.

***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 for both degrees.

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

#32 towards the BMath component, comprising:

- #14 from Part A of the BMath course list; and
  - #14 from Part B or Part C of the BMath course list, 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 complete a minimum of #8 late year courses and no more than #24 of Level 1 courses can be included in the program.
  - Recommended study plans for each 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.

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

### ***Bachelor of Economics component requirements:***

32 units from the BEcon List comprising:

- 18 units from Group 1 (not including ECON1050 or ECON1310); and
- 14 units (with no more than 6 units from level 1 courses and at least 8 units at level 3) from either:
  - o one major in Group 2 (6 units must be at level 3) and 2 units from Group 3; or
  - o elective courses from Group 3.

## BACHELOR OF MATHEMATICS/BACHELOR OF ECONOMICS

### 2018 DUAL DEGREE PROGRAM PLANNER – SEMESTER 1 COMMENCEMENT

*You can use this outline to plan your program (if you are commencing in semester 2, refer to the plan on page 3).*

| BACHELOR OF MATHEMATICS  |            | BACHELOR OF ECONOMICS                       |           |
|--|------------|---|-----------|
|  | Units #    |   | Units     |
| <b>YEAR ONE</b>  |            | <b>YEAR ONE</b>                             |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| MATH1051 Calculus & Linear Algebra* +                                    | 2          | ECON1010 Introductory Microeconomics        | 2         |
| MATH1061 Discrete Mathematics  | 2          | ECON1020 Introductory Macroeconomics        | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| MATH1052 Multivariate Calculus & Ordinary Differential Equations ++      | 2          | ACCT1101 Accounting for Decision Making     | 2         |
| STAT1301 Advanced Analysis of Scientific Data                            | 2          | ECONxxxx BEcon Group 3 Elective             | 2         |
| <i>Summer Semester</i>   |            | <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          | ECON2010 Microeconomic Theory               | 2         |
| MATH2400 Mathematical Analysis +++                                       | 2          | ECON2020 Macroeconomic Theory               | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| Level 2 course from major list   | 2          | ECON2030 Microeconomic Policy               | 2         |
| Level 2 course from major list   | 2          | ECON2040 Macroeconomic Policy               | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR THREE</b>  |            | <b>YEAR THREE</b>                           |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| Level 2 course from major list   | 2          | ECON2300 Introductory Econometrics          | 2         |
| Level 2 course from major list   | 2          | Course 1 for Major OR Group 3 Elective      | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| Level 3 course from major list   | 2          | Course 2 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | ECON3220 Benefit-Cost Analysis for Business | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR FOUR</b>   |            | <b>YEAR FOUR</b>                            |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| MATH3401 Complex Analysis  | 2          | Course 3 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | Course 4 for Major OR Group 3 Elective      | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| Level 3 course from major list   | 2          | Course 5 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | Course 6 for Major OR Group 3 Elective      | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>Total (Refer to BMath course list and rules for details on major)</b> | <b>#32</b> | <b>Total Units</b>                          | <b>32</b> |

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

+ 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

**A major in BEcon requires careful planning; please contact your Student Experience Officer in the BEL Faculty for assistance if required.**

*Please Note: Summer Semester is optional.*

*Last updated: 19/09/2017*

## BACHELOR OF MATHEMATICS/BACHELOR OF ECONOMICS 2018 DUAL DEGREE PROGRAM PLANNER – SEMESTER 2 COMMENCEMENT

*You can use this outline to plan your program if you are commencing in semester 2.*

| BACHELOR OF MATHEMATICS  |            | BACHELOR OF ECONOMICS                       |           |
|--|------------|---|-----------|
|  | Units<br># |   | Units     |
| <b>YEAR ONE</b>  |            | <b>YEAR ONE</b>                             |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| MATH1051 Calculus & Linear Algebra* +                                    | 2          | ECON1010 Introductory Microeconomics        | 2         |
| STAT1301 Advanced Analysis of Scientific Data                            | 2          | ECON1020 Introductory Macroeconomics        | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR TWO</b>  |            | <b>YEAR TWO</b>                             |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| MATH1052 Multivariate Calculus & Ordinary Differential Equations ++      | 2          | ECON2010 Microeconomic Theory               | 2         |
| MATH2400 Mathematical Analysis +++                                       | 2          | ECON2020 Macroeconomic Theory               | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| MATH1061 Discrete Mathematics  | 2          | ECON2030 Microeconomic Policy               | 2         |
| MATH2001 Advanced Calculus and Linear Algebra                            | 2          | ECON2040 Macroeconomic Policy               | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR THREE</b>  |            | <b>YEAR THREE</b>                           |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| Level 2 course from major list   | 2          | ACCT1101 Accounting for Decision Making     | 2         |
| Level 2 course from major list   | 2          | ECON2300 Introductory Econometrics          | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| Level 2 course from major list   | 2          | Course 1 for Major OR Group 3 Elective      | 2         |
| Level 2 course from major list   | 2          | ECON3220 Benefit-Cost Analysis for Business | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR FOUR</b>   |            | <b>YEAR FOUR</b>                            |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| Level 3 course from major list   | 2          | Course 2 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | Course 3 for Major OR Group 3 Elective      | 2         |
| <b>Semester 2</b>  |            | <b>Semester 2</b>                           |           |
| Level 3 course from major list   | 2          | Course 4 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | Course 5 for Major OR Group 3 Elective      | 2         |
| <i>Summer Semester</i>   |            | <i>Summer Semester</i>                      |           |
| <b>YEAR FIVE</b>   |            | <b>YEAR FIVE</b>                            |           |
| <b>Semester 1</b>  |            | <b>Semester 1</b>                           |           |
| MATH3401 Complex Analysis  | 2          | Course 6 for Major OR Group 3 Elective      | 2         |
| Level 3 course from major list   | 2          | ECON3xxx BEcon Group 3 Elective             | 2         |
| <b>Total (Refer to BMath course list and rules for details on major)</b> | <b>#32</b> | <b>Total Units</b>                          | <b>32</b> |

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

+ 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

**A major in BEcon requires careful planning; please contact your Student Experience Officer in the BEL Faculty for assistance if required.**

**Please Note:** Summer Semester is optional.