

# Completion Planner

## Mathematics Stream A

### Extended Major

Review your studies report and tick off the courses you have completed. If you have not completed a compulsory course, and this course is no longer offered, see the advice for alternatives below.

Discontinued courses are marked in *red italic*.

Some courses are marked **Inc** = Incompatible course. If you have completed one course you cannot complete the incompatible course as they are too similar in content.

This information should be read in conjunction with the program requirements for the [BA](#).

#### **24 units consisting of:**

6 units for **compulsory** gateway courses -

Course Code	Course Title
MATH1051	Calculus & Linear Algebra I
MATH1052	Multivariate Calculus & Ordinary Differential Equations
MATH1061	Discrete Mathematics

and 4 units for **compulsory** cornerstone courses -

Course Code	Course Title
MATH2001	Advanced Calculus & Linear Algebra II
MATH2400	Mathematical Analysis

and 4 units to 6 units from –

Course Code	Course Title
COSC2500	Numerical Methods in Computational Science
MATH2100	Applied Mathematical Analysis
MATH2301	Linear & Abstract Algebra & Number Theory
MATH2302	Discrete Mathematics II
STAT2003	Mathematical Probability

and 2 units for **compulsory** capstone course -

Course Code	Course Title
MATH3401	Complex Analysis

and 2 units to 8 units from -

Course Code	Course Title
MATH3090	Financial Mathematics
MATH3101	Bifurcation & Chaos

MATH3102	Methods & Models of Applied Mathematics
MATH3103	Algebraic Methods of Mathematical Physics
MATH3104	Mathematical Biology
MATH3201	Scientific Computing: Advanced Techniques and Applications
MATH3202	Operations Research & Mathematical Planning
MATH3301	Graph Theory and Design Theory
MATH3302	Coding & Cryptography
MATH3303	Abstract Algebra & Number Theory
MATH3306	Set Theory & Mathematical Logic
STAT3004	Probability Models & Stochastic Processes

which may include up to 4 units from –

<b>Course Code</b>	<b>Course Title</b>
MATH3402	Functional Analysis
MATH3403	Partial Differential Equations
MATH3404	Optimisation Theory
MATH3405	Differential Geometry

or any level 4 Mathematics course with the permission of the Executive Dean