

Bachelor of Mathematical Sciences (Advanced) - Semester 2 Start

| Year 1 | | | | |
|--------|---|--|--|---|
| S 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| S 2 | MATHS 1011 Mathematics IA <input type="checkbox"/> | ENG 1002 Programming (Matlab and C) <input type="checkbox"/> | STATS 1005 Statistical Analysis & Modelling I <input type="checkbox"/> | Level I or II or III Elective * <input type="checkbox"/> |
| Year 2 | | | | |
| S 1 | MATHS 1012 Mathematics IB <input type="checkbox"/> | MATHS 1015 Advanced Mathematical Perspectives I <input type="checkbox"/> | Level I Elective * <input type="checkbox"/> | Level I or II or III Elective * <input type="checkbox"/> |
| S 2 | MATHS 2100 Real Analysis II <input type="checkbox"/> | MATHS 2203 Advanced Mathematical Perspectives II <input type="checkbox"/> | STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/> | Level II Elective * <input type="checkbox"/> |
| Year 3 | | | | |
| S 1 | MATHS 2101 Multivariable & Complex Calculus II <input type="checkbox"/> | MATHS 2102 Differential Equations II <input type="checkbox"/> | MATHS 2103 Probability & Statistics II <input type="checkbox"/> | Level II Elective * <input type="checkbox"/> |
| S 2 | Level III Mathematical Sciences Elective <input type="checkbox"/> | MATHS 3020 Advanced Mathematical Perspectives III <input type="checkbox"/> | Level III Elective * <input type="checkbox"/> | Level III Elective * <input type="checkbox"/> |
| Year 4 | | | | |
| S 1 | MATHS 3025 Professional Practice III <input type="checkbox"/> | Level III Mathematical Sciences Elective <input type="checkbox"/> | Level III Mathematical Sciences Elective <input type="checkbox"/> | Level III Mathematical Sciences Elective <input type="checkbox"/> |
| S 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Core Courses

* Electives may be chosen from courses offered by the School of Mathematical Sciences, School of Computer Sciences or other courses offered by the University of Adelaide. Students will need to satisfy any specified course eligibility requirements. In particular, students should pay attention to any incompatibilities, restrictions, pre-requisites or assumed knowledge which is listed on Course Planner.

The following electives do not satisfy the program rules for this program:

STATS 1000, STATS 1004, STATS 1504, ECON 1008, ECON 1010, ECON 2503 & ECON 2504 cannot be presented as electives toward the BMASc (Adv).

How to choose an elective course in your area of interest? Please refer to the steps **via the**

link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Further Information and Enrolment Advice

Faculty of Engineering, Computer and Mathematical Sciences

Email: askecms@adelaide.edu.au

www.ecms.adelaide.edu.au

Electives Table

CHOOSE FROM THE FOLLOWING APPLIED MATHEMATICS ELECTIVES

| | | | |
|--|--|--|---|
| APP MTH 2105 Optimisation and Operations Research II <input type="checkbox"/> | APP MTH 3001 Applied Probability III <input type="checkbox"/> | APP MTH 3002 Fluid Mechanics III <input type="checkbox"/> | APP MTH 3014 Optimisation III <input type="checkbox"/> |
| APP MTH 3016 Random Processes III <input type="checkbox"/> | APP MTH 3020 Stochastic Decision Theory III <input type="checkbox"/> | APP MTH 3021 Modelling with Ordinary Differential Equations III <input type="checkbox"/> | APP MTH 3022 Optimal Functions and Nanomechanics III <input type="checkbox"/> |
| APP MTH 3023 Partial Differential Equations and Waves III <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

CHOOSE FROM THE FOLLOWING MATHEMATICS SCIENCES ELECTIVES

| | | | |
|--|--|---|--|
| MATHS 1004 Mathematics for Data Science <input type="checkbox"/> | MATHS 2104 Numerical Methods II <input type="checkbox"/> | MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/> | MATHS 3026 Cryptography III <input type="checkbox"/> |
|--|--|---|--|

CHOOSE FROM THE FOLLOWING PURE MATHEMATICS ELECTIVES

| | | | |
|---|--|---|---|
| PURE MTH 2106 Algebra II <input type="checkbox"/> | PURE MTH 3002 Topology and Analysis III <input type="checkbox"/> | PURE MTH 3007 Groups and Rings III <input type="checkbox"/> | PURE MTH 3009 Integration and Analysis III <input type="checkbox"/> |
| PURE MTH 3019 Complex Analysis III <input type="checkbox"/> | PURE MTH 3022 Geometry of Surfaces III <input type="checkbox"/> | PURE MTH 3023 Fields and Modules III <input type="checkbox"/> | <input type="checkbox"/> |

CHOOSE FROM THE FOLLOWING STATISTICS ELECTIVES

| | | | |
|--|---|---|--------------------------|
| STATS 3001 Statistics Modelling III <input type="checkbox"/> | STATS 3005 Time Series III <input type="checkbox"/> | STATS 3006 Mathematical Statistics III <input type="checkbox"/> | <input type="checkbox"/> |
|--|---|---|--------------------------|