

Bachelor of Mathematical and Computer Sciences

Year 1				
S 1	MATHS 1011 Mathematics IA # <input type="checkbox"/>	ENG 1002 Programming (Matlab and C) <input type="checkbox"/>	Level I Elective * <input type="checkbox"/>	Level I or II or III Elective * <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	Level I Elective * <input type="checkbox"/>	Level I Elective * <input type="checkbox"/>	Level I or II or III Elective * <input type="checkbox"/>
Year 2				
S 1	Level II Elective * <input type="checkbox"/>	Level II Elective * <input type="checkbox"/>	Level II Elective * <input type="checkbox"/>	Level I or II or III Elective * <input type="checkbox"/>
S 2	Level II Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level II Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level II Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level II Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>
Year 3				
S 1	MATHS 3025 Professional Practice III <input type="checkbox"/>	Level III Elective * <input type="checkbox"/>	Level III Elective * <input type="checkbox"/>	Level III Elective * <input type="checkbox"/>
S 2	Level III Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level III Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level III Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>	Level III Mathematical Sciences or Computer Sciences Elective * <input type="checkbox"/>

Core Courses

Students who have not passed SACE Stage 2 Specialist Maths are required to enrol in MATHS 1013 Mathematics IM as a prerequisite to enrolling in MATHS 1011 Mathematics IA. Students may manage their enrolment by enrolling in MATHS 1013 Mathematics IM in semester I, followed by MATHS 1011 Mathematics IA in semester 2, and MATHS 1012 Mathematics IB in summer school.

*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. The program rules require students to present at least 36 units of Mathematical and Computer Science Elective of which at least 12 units are at Level III. 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:

MATHS 1009, MATHS 1010, STATS 1000, STATS 1004, STATS 1504, ECON 1008, ECON 1010, ECON 2503 & ECON 2504 cannot be presented as electives toward the BMaCompSc.

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 2104 Numerical Methods II <input type="checkbox"/>	MATHS 3012 Financial Modelling: Tools & Techniques III <input type="checkbox"/>	MATHS 1004 Mathematics for Data Science <input type="checkbox"/>	MATHS 1013 Mathematics IM <input type="checkbox"/>
MATHS 2100 Real Analysis II <input type="checkbox"/>	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"/>
MATHS 3026 Cryptography III <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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 3022 Geometry of Surfaces 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 3023 Fields and Modules III <input type="checkbox"/>	<input type="checkbox"/>

CHOOSE FROM THE FOLLOWING STATISTICS ELECTIVES

STATS 1005 Statistical Analysis & Modelling I <input type="checkbox"/>	STATS 2107 Statistical Modelling and Inference II <input type="checkbox"/>	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"/>	<input type="checkbox"/>	<input type="checkbox"/>

CHOOSE FROM THE FOLLOWING COMPUTER SCIENCES ELECTIVES

COMP SCI 1010 Puzzle Based Learning <input type="checkbox"/>	COMP SCI 1102 Object Oriented Programming <input type="checkbox"/>	COMP SCI 1106 Introduction to Software Engineering <input type="checkbox"/>	COMP SCI 2000 Computer Systems <input type="checkbox"/>
COMP SCI 2005 Systems Programming <input type="checkbox"/>	COMP SCI 2201 Algorithm & Data Structure Analysis <input type="checkbox"/>	COMP SCI 2203 Problem Solving & Software Development <input type="checkbox"/>	COMP SCI 2207 Web & Database Computing <input type="checkbox"/>
COMP SCI 3001 Computer Network & Applications <input type="checkbox"/>	COMP SCI 3004 Operation Systems <input type="checkbox"/>	COMP SCI 3005 Computer Architecture <input type="checkbox"/>	COMP SCI 3006 Software Engineering & Project <input type="checkbox"/>
COMP SCI 3007 Artificial Intelligence <input type="checkbox"/>	COMP SCI 3012 Distributed Systems <input type="checkbox"/>	COMP SCI 3013 Event Driven Computing <input type="checkbox"/>	COMP SCI 3014 Computer Graphics <input type="checkbox"/>
COMP SCI 3305 Parallel and Distributed Computing <input type="checkbox"/>	<input type="checkbox"/>		