

Bachelor of Mathematical and Computer Sciences (Honours)

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Bachelor of Mathematical and Computer Sciences (Honours) Mathematical Sciences

Year 1	Course	Units	Status
S1	MATHS 4005A Honours Project in Mathematical Sciences A	0	
S1	Group A Elective	3	
S1	Group A Elective	3	
S1	Group A or B Elective	3	
S2	MATHS 4005B Honours Project in Mathematical Sciences B	0	
S2	MATHS 4005C Honours Project in Mathematical Sciences C	9	
S2	Group A Elective	3	
S2	Group A, B or C Elective	3	

Core Course		Elective Course (see next page)	
CM = Completed	CR = Credit Awarded	EN = Currently Enrolled	ENROL = Add to Enrolments

Electives

- Please note that the ordering of electives is an example only, students are free to change the ordering of electives between the two semesters.

Major

- In order to acquire a major in Applied Mathematics, Pure Mathematics or Statistics students must complete 9 units of electives in the discipline including 6 units from Group A.
- A student who chooses a Mathematical Sciences project and does not qualify for a discipline major, will receive a major in Mathematical Sciences.

Links and Further Information

- [Course Planner](#) Information about University courses, including availability, class times, restrictions and prerequisites.
- [University Calendar](#) All academic program rules.
- Contact Ask ECMS:** askecms@adelaide.edu.au • +61 8 8313 4148 • www.ecms.adelaide.edu.au

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Mathematical Sciences Elective Tables

Course	Units	Status
Group A Elective Table		
S1	APP MTH 4046 Applied Mathematics Topic A - Honours	3
S1	APP MTH 4047 Applied Mathematics Topic B - Honours	3
S1	APP MTH 4048 Applied Mathematics Topic C - Honours	3
S1	PURE MTH 4012 Pure Mathematics Topic B - Honours	3
S1	PURE MTH 4038 Pure Mathematics Topic A - Honours	3
S1	STATS 4013 Statistics Topic A - Honours	3
S2	APP MTH 4049 Applied Mathematics Topic D - Honours	3
S2	APP MTH 4051 Applied Mathematics Topic E - Honours	3
S2	APP MTH 4052 Applied Mathematics Topic F - Honours	3
S2	PURE MTH 4013 Pure Mathematics Topic D - Honours	3
S2	PURE MTH 4066 Pure Mathematics Topic E - Honours	3
S2	STATS 4008 Statistics Topic D - Honours	3
Group B Elective Table		
S1	APP MTH 4101 Applied Probability - Honours	3
S1	APP MTH 4102 Fluid Mechanics - Honours	3
S1	APP MTH 4114 Optimisation - Honours	3
S1	APP MTH 4121 Modelling with Ordinary Differential Equations Hon	3
S1	PURE MTH 4102 Topology and Analysis - Honours	3
S1	PURE MTH 4107 Groups and Rings - Honours	3
S1	PURE MTH 4119 Complex Analysis - Honours	3
S1	STATS 4101 Statistical Modelling - Honours	3
S1	STATS 4106 Mathematical Statistics - Honours	3
S2	APP MTH 4116 Random Processes - Honours	3
S2	APP MTH 4123 Partial Differential Equations and Waves - Honours	3
S2	APP MTH 4124 Decision Science - Honours	3
S2	MATHS 4026 Cryptography Honours	3
S2	MATHS 4112 Financial Modelling: Tools & Techniques - Honours	3
S2	PURE MTH 4109 Integration and Analysis - Honours	3
S2	STATS 4022 Data Science - Honours	3
S2	STATS 4023 Computational Bayesian Statistics III - Honours	3
Group C Elective Table		
S1 S2	APP MTH 4110EX AMSI - Applied Mathematics Topic A - Honours	3
S1 S2	APP MTH 4111EX AMSI - Applied Mathematics Topic B - Honours	3
S1 S2	PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours	3
S1 S2	PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours	3
S1 S2	STATS 4110EX AMSI Statistics Topic A - Honours	3
S1 S2	STATS 4111EX AMSI Statistics Topic B - Honours	3

Bachelor of Mathematical and Computer Sciences (Honours) Computer Science

Year 1	Course	Units	Status
S1	COMP SCI 4015A Computer Science Honours Research Project Part A	0	
S1	Computer Science Honours Elective	3	
S1	Computer Science Honours Elective	3	
S2	COMP SCI 4015B Computer Science Honours Research Project Part B	12	
S2	Computer Science Honours Elective	3	
S2	Computer Science Honours Elective	3	

Core Course		Elective Course (see elective tables)	
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Computer Science Honours Elective			
S1	COMP SCI 4123 Software Process Improvement	3	
S1	COMP SCI 4807 Advanced Algorithms	3	
S1	COMP SCI 4808 Modelling and Analysis of Complex Systems	3	
S1	COMP SCI 4809 Search Based Software Engineering	3	
S1	COMP SCI 4813 Introduction to Quantum Computing	3	
S1	COMP SCI 4817 Applied Natural Language Processing Honours	3	
S2	COMP SCI 4192 Mobile and Wireless Systems Hons	3	
S2	COMP SCI 4194 Distributed Databases and Data Mining	3	
S2	COMP SCI 4811 Event Driven Computing	3	
S2	COMP SCI 4812 Secure Software Engineering	3	
S2	COMP SCI 4816 Applied Machine Learning Honours	3	

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