

# **Bachelor of Mathematical and Computer Sciences (Honours)**

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## Bachelor of Mathematical and Computer Sciences (Honours) Mathematical Sciences

Course		Units	Status
Year 1			
S2	<a href="#">MATHS 4005A Honours Project in Mathematical Sciences A</a>	0	
S2	Group A Elective	3	
S2	Group A Elective	3	
S2	Group A or B Elective	3	
S1	<a href="#">MATHS 4005B Honours Project in Mathematical Sciences B</a>	0	
S1	<a href="#">MATHS 4005C Honours Project in Mathematical Sciences C</a>	9	
S1	Group A Elective	3	
S1	Group A, B or C Elective	3	

Core Course		Elective Course (see next page)	
<b>CM</b> = Completed	<b>CR</b> = Credit Awarded	<b>EN</b> = Currently Enrolled	<b>ENROL</b> = 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](mailto:askecms@adelaide.edu.au) • +61 8 8313 4148 • [www.ecms.adelaide.edu.au](http://www.ecms.adelaide.edu.au)

## Bachelor of Mathematical and Computer Sciences (Honours) Mathematical Sciences Elective Tables

Course	Units	Status
<b>Group A Elective Table</b>		
N/A	<a href="#">APP MTH 4048 Applied Mathematics Topic C - Honours</a>	3
N/A	<a href="#">STATS 4014 Statistics Topic B - Honours</a>	3
S1	<a href="#">APP MTH 4046 Applied Mathematics Topic A - Honours</a>	3
S1	<a href="#">APP MTH 4047 Applied Mathematics Topic B - Honours</a>	3
S1	<a href="#">PURE MTH 4012 Pure Mathematics Topic B - Honours</a>	3
S1	<a href="#">PURE MTH 4038 Pure Mathematics Topic A - Honours</a>	3
S1	<a href="#">STATS 4013 Statistics Topic A - Honours</a>	3
S2	<a href="#">APP MTH 4049 Applied Mathematics Topic D - Honours</a>	3
S2	<a href="#">APP MTH 4051 Applied Mathematics Topic E - Honours</a>	3
S2	<a href="#">APP MTH 4052 Applied Mathematics Topic F - Honours</a>	3
S2	<a href="#">PURE MTH 4013 Pure Mathematics Topic D - Honours</a>	3
S2	<a href="#">PURE MTH 4066 Pure Mathematics Topic E - Honours</a>	3
S2	<a href="#">STATS 4008 Statistics Topic D - Honours</a>	3
<b>Group B Elective Table</b>		
N/A	<a href="#">APP MTH 4122 Optimal Functions and Nanomechanics - Honours</a>	3
N/A	<a href="#">APP MTH 4124 Decision Science - Honours</a>	3
N/A	<a href="#">PURE MTH 4109 Integration and Analysis - Honours</a>	3
N/A	<a href="#">PURE MTH 4122 Geometry of Surfaces - Honours</a>	3
N/A	<a href="#">PURE MTH 4124 Finite Geometry - Honours</a>	3
N/A	<a href="#">STATS 4105 Time Series - Honours</a>	3
N/A	<a href="#">STATS 4108 Biostatistics - Honours</a>	3
S1	<a href="#">APP MTH 4101 Applied Probability - Honours</a>	3
S1	<a href="#">APP MTH 4102 Fluid Mechanics - Honours</a>	3
S1	<a href="#">APP MTH 4114 Optimisation - Honours</a>	3
S1	<a href="#">APP MTH 4121 Modelling with Ordinary Differential Equations Hon</a>	3
S1	<a href="#">PURE MTH 4102 Topology and Analysis - Honours</a>	3
S1	<a href="#">PURE MTH 4107 Groups and Rings - Honours</a>	3
S1	<a href="#">PURE MTH 4119 Complex Analysis - Honours</a>	3
S1	<a href="#">STATS 4101 Statistical Modelling - Honours</a>	3
S1	<a href="#">STATS 4106 Mathematical Statistics - Honours</a>	3
S2	<a href="#">APP MTH 4116 Random Processes - Honours</a>	3
S2	<a href="#">APP MTH 4123 Partial Differential Equations and Waves - Honours</a>	3
S2	<a href="#">MATHS 4026 Cryptography Honours</a>	3
S2	<a href="#">MATHS 4112 Financial Modelling: Tools &amp; Techniques - Honours</a>	3
S2	<a href="#">PURE MTH 4123 Fields and Modules - Honours</a>	3
S2	<a href="#">STATS 4022 Data Science - Honours</a>	3
S2	<a href="#">STATS 4023 Computational Bayesian Statistics III - Honours</a>	3
<b>Group C Elective Table</b>		
S1 S2	<a href="#">APP MTH 4110EX AMSI - Applied Mathematics Topic A - Honours</a>	3
S1 S2	<a href="#">APP MTH 4111EX AMSI - Applied Mathematics Topic B - Honours</a>	3
S1 S2	<a href="#">PURE MTH 4110EX AMSI Pure Mathematics Topic A - Honours</a>	3
S1 S2	<a href="#">PURE MTH 4111EX AMSI Pure Mathematics Topic B - Honours</a>	3
S1 S2	<a href="#">STATS 4110EX AMSI Statistics Topic A - Honours</a>	3
S1 S2	<a href="#">STATS 4111EX AMSI Statistics Topic B - Honours</a>	3

## Bachelor of Mathematical and Computer Sciences (Honours) Computer Science

Year 1	Course	Units	Status
S2	<a href="#">COMP SCI 4015A Computer Science Honours Research Project Part A</a>	0	
S2	Computer Science Honours Elective	3	
S2	Computer Science Honours Elective	3	
S1	<a href="#">COMP SCI 4015B Computer Science Honours Research Project Part B</a>	12	
S1	Computer Science Honours Elective	3	
S1	Computer Science Honours Elective	3	

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Computer Science Honours Elective			
S1	<a href="#">COMP SCI 4123 Software Process Improvement</a>	3	
S1	<a href="#">COMP SCI 4807 Advanced Algorithms</a>	3	
S1	<a href="#">COMP SCI 4808 Modelling and Analysis of Complex Systems</a>	3	
S1	<a href="#">COMP SCI 4809 Search Based Software Engineering</a>	3	
S1	<a href="#">COMP SCI 4813 Introduction to Quantum Computing</a>	3	
S1	<a href="#">COMP SCI 4817 Applied Natural Language Processing Honours</a>	3	
S2	<a href="#">COMP SCI 4100 Software Architecture</a>	3	
S2	<a href="#">COMP SCI 4192 Mobile and Wireless Systems Hons</a>	3	
S2	<a href="#">COMP SCI 4194 Distributed Databases and Data Mining</a>	3	
S2	<a href="#">COMP SCI 4811 Event Driven Computing</a>	3	
S2	<a href="#">COMP SCI 4812 Secure Software Engineering</a>	3	
S2	<a href="#">COMP SCI 4816 Applied Machine Learning Honours</a>	3	

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