Overview

The UNSW School of Mathematics and Statistics offers a complete range of courses in Mathematics and Statistics at all levels. The School is also a leading centre for mathematical research at both the national and the international level; our expertise ranges across wide areas of Mathematics, including Financial Mathematics, Biomedical Mathematics, and Environmental Mathematics.
Faculty
Faculty of Science

School
School of Mathematics & Statistics

Study Level
Undergraduate

Minimum Units of Credit
36

Specialisation Type
Minor
Available in Program(s)

Program(s) in which this minor is available

Bachelor of Economics - **BEC**
**3543 Economics**
Faculty: UNSW Business School
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 Years

Bachelor of Science - **BSc**
**3778 Computer Science**
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 Years

Bachelor of Advanced Science (Honours) - **BAdvSci(Hons)**
**3962 Advanced Science (Honours)**
Faculty: Faculty of Science
Campus: Kensington
Units of Credit: 192
Typical Duration: 4 Years

Bachelor of Science - **BSc**
**3970 Science**
Faculty: Faculty of Science
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 Years
Specialisation Structure

Students must complete 36 UOC.

Level 1 Core Courses

Students must take 12 UOC of the following courses.

One of the following:

MATH1131  6 UOC
Mathematics 1A

MATH1141  6 UOC
Higher Mathematics 1A

One of the following:

MATH1231  6 UOC
Mathematics 1B

MATH1241  6 UOC
Higher Mathematics 1B

Level 2/3 Mathematics Electives

Students must take at least 24 UOC of the following courses.

MATH2011  6 UOC
Several Variable Calculus

MATH2019  6 UOC
Engineering Mathematics 2E

MATH2069  6 UOC
Mathematics 2A

MATH2089  6 UOC
Numerical Methods and Statistics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Unit Credit</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH2099</td>
<td>6 UOC</td>
<td>Mathematics 2B</td>
</tr>
<tr>
<td>MATH2111</td>
<td>6 UOC</td>
<td>Higher Several Variable Calculus</td>
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<tr>
<td>MATH2121</td>
<td>6 UOC</td>
<td>Theory and Applications of Differential Equations</td>
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<tr>
<td>MATH2221</td>
<td>6 UOC</td>
<td>Higher Theory and Applications of Differential Equations</td>
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<tr>
<td>MATH2241</td>
<td>6 UOC</td>
<td>Introduction to Atmosphere and Ocean Dynamics</td>
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<td>MATH2301</td>
<td>6 UOC</td>
<td>Mathematical Computing</td>
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<td>MATH2400</td>
<td>3 UOC</td>
<td>Finite Mathematics</td>
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<td>MATH2501</td>
<td>6 UOC</td>
<td>Linear Algebra</td>
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<td>MATH2521</td>
<td>6 UOC</td>
<td>Complex Analysis</td>
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<tr>
<td>MATH2601</td>
<td>6 UOC</td>
<td>Higher Linear Algebra</td>
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<tr>
<td>MATH2621</td>
<td>6 UOC</td>
<td>Higher Complex Analysis</td>
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<tr>
<td>MATH2701</td>
<td>6 UOC</td>
<td>Abstract Algebra and Fundamental Analysis</td>
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<td>MATH3041</td>
<td>6</td>
<td>Mathematical Modelling for Real World Systems</td>
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<td>MATH3101</td>
<td>6</td>
<td>Computational Mathematics for Science and Engineering</td>
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<td>MATH3121</td>
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<td>Mathematical Methods and Partial Differential Equations</td>
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<td>MATH3161</td>
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<td>Optimization</td>
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<td>MATH3201</td>
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<td>Dynamical Systems and Chaos</td>
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<td>MATH3261</td>
<td>6</td>
<td>Fluids, Oceans and Climate</td>
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<td>MATH3311</td>
<td>6</td>
<td>Mathematical Computing for Finance</td>
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<td>MATH3411</td>
<td>6</td>
<td>Information, Codes and Ciphers</td>
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<tr>
<td>MATH3511</td>
<td>6</td>
<td>Transformations, Groups and Geometry</td>
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<tr>
<td>MATH3521</td>
<td>6</td>
<td>Algebraic Techniques in Number Theory</td>
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<tr>
<td>MATH3531</td>
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<td>Topology and Differential Geometry</td>
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<td>MATH3560</td>
<td>3</td>
<td>History of Mathematics</td>
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</table>
Level 2/3 Mathematics Electives

Students must complete a minimum of 6 UOC of the following courses.

any level 3 Mathematics course

any level 5 Mathematics course

any level 6 Mathematics course

Non-statistics Mathematics Courses

Students may not undertake any of the following higher statistics mathematics courses.

any level 58

any level 59

Enrolment Disclaimer

Unless advised otherwise by your program authority, you should follow the rules for
the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179