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>UOC</th>
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<tbody>
<tr>
<td>MATH2099</td>
<td>6</td>
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<tr>
<td>Mathematics 2B</td>
<td></td>
</tr>
<tr>
<td>MATH2111</td>
<td>6</td>
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<tr>
<td>Higher Several Variable Calculus</td>
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</tr>
<tr>
<td>MATH2121</td>
<td>6</td>
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<tr>
<td>Theory and Applications of Differential Equations</td>
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<tr>
<td>MATH2221</td>
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<tr>
<td>Higher Theory and Applications of Differential Equations</td>
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<tr>
<td>MATH2241</td>
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<tr>
<td>Introduction to Atmosphere and Ocean Dynamics</td>
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<tr>
<td>MATH2301</td>
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<tr>
<td>Mathematical Computing</td>
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<tr>
<td>MATH2400</td>
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<tr>
<td>Finite Mathematics</td>
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<tr>
<td>MATH2501</td>
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<tr>
<td>Linear Algebra</td>
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<td>MATH2521</td>
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<tr>
<td>Complex Analysis</td>
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<tr>
<td>MATH2601</td>
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<tr>
<td>Higher Linear Algebra</td>
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<tr>
<td>MATH2621</td>
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<tr>
<td>Higher Complex Analysis</td>
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<tr>
<td>MATH2701</td>
<td>6</td>
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<tr>
<td>Abstract Algebra and Fundamental Analysis</td>
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</tbody>
</table>
MATH3041 | 6 UOC
Mathematical Modelling for Real World Systems

MATH3101 | 6 UOC
Computational Mathematics for Science and Engineering

MATH3121 | 6 UOC
Mathematical Methods and Partial Differential Equations

MATH3161 | 6 UOC
Optimization

MATH3201 | 6 UOC
Dynamical Systems and Chaos

MATH3261 | 6 UOC
Fluids, Oceans and Climate

MATH3311 | 6 UOC
Mathematical Computing for Finance

MATH3411 | 6 UOC
Information, Codes and Ciphers

MATH3511 | 6 UOC
Transformations, Groups and Geometry

MATH3521 | 6 UOC
Algebraic Techniques in Number Theory

MATH3531 | 6 UOC
Topology and Differential Geometry

MATH3560 | 3 UOC
History of Mathematics
MATH3570 | 3 UOC  
Foundations of Calculus

MATH3611 | 6 UOC  
Higher Analysis

MATH3701 | 6 UOC  
Higher Topology and Differential Geometry

MATH3711 | 6 UOC  
Higher Algebra

any level 5 Mathematics course

**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