FACULTY OF SCIENCE Stream Details

You should seek advice as to the appropriateness of courses to your intended area of study in a degree program. When selecting non-core courses for UNSW Prep, you are advised to consult the Online Handbook (http://www.handbook.unsw.edu.au) to see whether HSC mathematics is assumed knowledge for any area of interest and any matching majors. If you have not completed HSC Mathematics (2 unit) or equivalent and wish to pursue a major with Maths requirements, you should enrol in Mathematics Skills.

Students will gain credit for all non-Enabling courses at UNSW provided they successfully complete all Enabling courses. Admission to the Bachelor of Science degree at UNSW is based on successful completion of all 6 courses.

ELIGIBILITY

ACCESS Eligible
Assessed as eligible for UNSW’s ACCESS Scheme via UAC’s Educational Access Schemes (EAS) process

Age
17-19 years on 1 March 2019

Citizenship / Residency
An Australian citizen, New Zealand citizen or hold a current Australian Permanent Resident visa

Post-school study
You cannot study UNSW Prep at the same time as another course

UAC
Include at least one UNSW Preparation Program preference in your UAC application. UAC codes are: Arts and Social Sciences - 430100; Business - 430110; Engineering - 430120; Science - 430130

ATAR
Have an ATAR of 50.00 or above, or be an Indigenous applicant applying via UNSW’s Nura Gili Indigenous Admission Scheme

Additional Criteria
Provide a personal statement (using the template on the website) via UAC’s ‘Check and Change’ facility. You may also be asked to attend a short interview in January.

TIME COMMITMENT

Structure - 3 x 10 week terms
(Feburary - April, June - August and September - November)
Time commitments are based on the subjects undertaken within each Term (see Course Components).

At least 6-8 hours of independent study per week is recommended for each course, as well as some time each week for online learning.

APPLICATION

Applications must be made online via the Universities Admissions Centre (UAC), www.uac.edu.au. The Personal Statement is a compulsory part of the UNSW Prep application. It is your chance to share what interests you about the program, and also what makes you a suitable candidate.

COST

• UNSW Prep is fully funded by the Australian Government so for the first few subjects of your degree you pay no course fees.*

• You need to pay the Student Services and Amenities Fee ($149 per year in 2018), which lets you access all the services for students at UNSW.

• You pay the cost of any materials you need for your course.

FURTHER INFO

The Learning Centre
Ph: +61 2 9385 2060
Email: unswprep@unsw.edu.au
Course information
General enquiries

UNSW Admissions
Ph: +61 2 9385 3656
www.enquiry.unsw.edu.au
Eligibility & application
Future study options

*This may change. Please check fee details prior to application www.futuresstudents.unsw.edu.au/unswprep17-19
Course Components 2019

Term 1

**Academic Skills 1 (REGZ9075)**

<table>
<thead>
<tr>
<th>For:</th>
<th>Compulsory for ALL UNSW Prep Program students</th>
<th>Available:</th>
<th>Term 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior knowledge:</td>
<td>Must be proficient in written and spoken English</td>
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<td></td>
</tr>
</tbody>
</table>

Academic Skills 1 develops the fundamental skills of studying at university. This course will be based around the topic of technology. Other topics covered in the course include:

- orientation to the academic system
- time management skills
- critical analysis skills
- essay writing
- an introduction to online learning
- note taking from lectures and written material
- preparing seminar presentations
- examination techniques

**Mathematics Skills 1 (REGZ9070)***

<table>
<thead>
<tr>
<th>For:</th>
<th>Compulsory for ALL UNSW Prep Science stream students</th>
<th>Available:</th>
<th>Term 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior Knowledge:</td>
<td>Year 10 Advanced Level Mathematics is assumed (Confident with algebra, such as simplification of expressions, solving equations &amp; in-equations, factorisation including quadratic equations and using a scientific calculator including the fraction, power and exponential keys).</td>
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</tr>
</tbody>
</table>

UPP Mathematics Skills 1 is for students who have not achieve an appropriate level of mathematics at high school or equivalent and wish to apply to UNSW degree programs with assumed knowledge in mathematics. Topics include:

- basic arithmetic and algebra (2.5 weeks);
- further arithmetic and algebra (2.5 weeks);
- coordinate geometry (2 weeks);
- functions and graphs (2 weeks).

**OR**

* Students who have already passed Year 12 Maths, have the option of substituting REGZ9070 for another Science elective course. The process for this is the students will enrol into the additional course, they will sit a diagnostic exam in O Week, and if successful, they can drop REGZ9070.

Term 2

**Academic Skills 2 (REGZ9076)**

<table>
<thead>
<tr>
<th>For:</th>
<th>Compulsory for ALL UNSW Prep Program students</th>
<th>Available:</th>
<th>Term 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior knowledge:</td>
<td>Must be proficient in written and spoken English</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Academic Skills 2 develops the fundamental skills of studying at university. It builds on skills already learned in Academic Skills 1, but introduces students to study strategies used in social science topics. The course is taught in an interactive method, so that students are able to learn through participation. The course contains both written and spoken assignments including annotated bibliography, critical review and research report, which allow students to further deepen their reading, writing, thinking, researching and spoken skills. Similar to Term 1, this course will be based around the topic of technology.
**Mathematics Skills 2 (REGZ9072)**

**For:**
Compulsory for ALL UNSW Prep Science stream students

**Available:**
Term 2

**Prior knowledge:**
Must be proficient in written and spoken English

**UPP Mathematics Skills 2** It is designed to provide a level of competency in mathematics for students who have not studied HSC Mathematics (or equivalent) at high school and who wish to apply to UNSW programs with assumed knowledge in Mathematics, and follows on from REGZ9070. It takes students to the equivalent of 2 Unit Yr 12 Mathematics. Topics include:

- differential calculus (3 weeks);
- integral calculus (1.5 weeks);
- trigonometry and trigonometric functions (2.5 weeks);
- exponential and logarithmic functions (2 weeks)

*A student who attains a distinction level pass or higher in REGZ9070 Maths Skills in Term 1 and successfully completes REGSZ9075 may be permitted to take MATH1011 in Term 2 after consultation with the Maths Skills Coordinator.*

**AND**

One Science elective course from the table below (in sequence if multiple courses taken from a single Area).

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**Term 3**

**UPP Mathematics Skills 3 (REGZ9073)**

**For:**
Compulsory for ALL UNSW Prep Science stream students

**Available:**
Term 3

**Pre-requisites:**
Successful completion of REGZ9072.

**UPP Mathematics Skills 3** is for students who have not achieved an appropriate level of mathematics at high school or equivalent and wish to apply to UNSW degree programs with assumed knowledge in mathematics. Topics include:

- applications of calculus (2 weeks);
- sequences and series (2 weeks);
- introductory probability (2 weeks);
- introductory statistics (3 weeks).

**OR**

One Science elective course from the table below (in sequence if multiple courses taken from a single Area).

<table>
<thead>
<tr>
<th>Area</th>
<th>Code</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioscience</td>
<td>BABS1201</td>
<td><em>Molecules, Cells and Genes</em></td>
</tr>
<tr>
<td>BIOS1101</td>
<td></td>
<td><em>Evolutionary and Functional Biology</em></td>
</tr>
<tr>
<td>BIOS1301</td>
<td></td>
<td><em>Ecology, sustainability and environmental science</em></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHEM1001</td>
<td><em>Introductory Chemistry</em></td>
</tr>
<tr>
<td>CHEM1011</td>
<td></td>
<td><em>Chemistry A: Atoms, Molecules and Energy</em></td>
</tr>
<tr>
<td>CHEM1021</td>
<td></td>
<td><em>Chemistry B: Elements, Compounds and Life</em></td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH1011</td>
<td><em>Fundamentals of Mathematics B</em></td>
</tr>
<tr>
<td>MATH1031</td>
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<td><em>Mathematics for Life Sciences</em></td>
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<tr>
<td>MATH1041</td>
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<td><em>Statistics for Life and Social Sciences</em></td>
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<td>MATH1131</td>
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<td><em>Mathematics 1A</em></td>
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<td>Course Code</td>
<td>Course Name</td>
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</tr>
<tr>
<td>MATH1231</td>
<td>Mathematics 1B</td>
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<tr>
<td>PHYS1111</td>
<td>Fundamentals of Physics</td>
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<tr>
<td>PHYS1121</td>
<td>Physics 1A</td>
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<tr>
<td>PHYS1221</td>
<td>Physics 1B</td>
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</tr>
<tr>
<td>PSYC1001</td>
<td>Psychology 1A</td>
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<tr>
<td>PSYC1011</td>
<td>Psychology 1B</td>
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