Engineering Science

3706  |  144 Units of Credit

Overview

This program is an exit point for students from the Bachelor of Engineering (Honours) program 3707.
<table>
<thead>
<tr>
<th><strong>Faculty</strong></th>
<th>Faculty of Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Kensington</td>
</tr>
<tr>
<td><strong>Study Level</strong></td>
<td>Undergraduate</td>
</tr>
<tr>
<td><strong>Typical duration</strong></td>
<td>3 Years</td>
</tr>
<tr>
<td><strong>Delivery Mode</strong></td>
<td>Face-to-face</td>
</tr>
<tr>
<td><strong>Academic Calendar</strong></td>
<td>3+ Calendar</td>
</tr>
<tr>
<td><strong>Minimum Units of Credit</strong></td>
<td>144</td>
</tr>
<tr>
<td><strong>Award type</strong></td>
<td>Bachelors Pass</td>
</tr>
<tr>
<td><strong>Award(s)</strong></td>
<td>Bachelor of Engineering Science - BEngSc</td>
</tr>
<tr>
<td><strong>CRICOS Code</strong></td>
<td>067602J</td>
</tr>
</tbody>
</table>
Program Structure

Students must complete 144 UOC as a standalone program.

- 96 UOC stream
- 12 UOC engineering electives
- 24 UOC free electives
- 12 UOC General Education

Specialisation Requirements

Students must complete at least one of the specialisations below.

MAJOR:

CEICM1 | 96 UOC
Chemical Engineering

CVENJ1 | 96 UOC
Civil Engineering

CVENK1 | 96 UOC
Environmental Engineering

ELECF1 | 96 UOC
Electrical Engineering

MECHD1 | 96 UOC
Mechanical Engineering

MINEC1 | 96 UOC
Mining Engineering

MTRND1 | 96 UOC
Mechatronic Engineering

PETRB1 | 96 UOC
**Engineering Electives**

Students must take at least 12 UOC of the following courses.

**NOTE:**

ENGG1300 excludes CVEN1300, MINE1300, and MMAN1300.

CHEM1031 and CHEM1041 will only be available to students enrolled in a program which has a Chemistry major.

**BABS1201 | 6 UOC**  
Molecules, Cells and Genes

**BIOM1010 | 6 UOC**  
Engineering in Medicine and Biology

**BIOS1301 | 6 UOC**  
Ecology, Sustainability and Environmental Science

**CEIC1000 | 6 UOC**  
Sustainable Product Engineering and Design

**CEIC1001 | 6 UOC**  
Engineering Chemistry

**CHEM1011 | 6 UOC**  
Chemistry 1A: Atoms, Molecules and Energy

**CHEM1021 | 6 UOC**  
Chemistry 1B: Elements, Compounds and Life

**CHEM1031 | 6 UOC**  
Higher Chemistry 1A: Atoms, Molecules and Energy

**CHEM1041 | 6 UOC**  
Higher Chemistry 1B: Elements, Compounds and Life
<table>
<thead>
<tr>
<th>Course Code</th>
<th>UOC</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP1921</td>
<td>6</td>
<td>Computing 1B</td>
</tr>
<tr>
<td>CVEN1701</td>
<td>6</td>
<td>Environmental Principles and Systems</td>
</tr>
<tr>
<td>ELEC1111</td>
<td>6</td>
<td>Electrical and Telecommunications Engineering</td>
</tr>
<tr>
<td>ENGG1100</td>
<td>6</td>
<td>Grand Challenges for Engineering</td>
</tr>
<tr>
<td>ENGG1300</td>
<td>6</td>
<td>Engineering Mechanics</td>
</tr>
<tr>
<td>ENGG1400</td>
<td>6</td>
<td>Engineering Infrastructure Systems</td>
</tr>
<tr>
<td>GEOS1111</td>
<td>6</td>
<td>Fundamentals of Geology</td>
</tr>
<tr>
<td>GEOS3321</td>
<td>6</td>
<td>Fundamentals of Petroleum Geology</td>
</tr>
<tr>
<td>GMAT1110</td>
<td>6</td>
<td>Surveying and Geospatial Engineering</td>
</tr>
<tr>
<td>GMAT1400</td>
<td>6</td>
<td>Land Resource Assessment</td>
</tr>
<tr>
<td>MATH1081</td>
<td>6</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MATS1101</td>
<td>6</td>
<td>Engineering Materials and Chemistry</td>
</tr>
<tr>
<td>Course Code</td>
<td>UOC</td>
<td>Course Name</td>
</tr>
<tr>
<td>------------</td>
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<td>-------------------------------------------------</td>
</tr>
<tr>
<td>MATS1110</td>
<td>6</td>
<td>Introduction to Materials for Engineering Applications</td>
</tr>
<tr>
<td>MINE1010</td>
<td>6</td>
<td>Mineral Resources Engineering</td>
</tr>
<tr>
<td>PHYS1231</td>
<td>6</td>
<td>Higher Physics 1B</td>
</tr>
<tr>
<td>PSYC1001</td>
<td>6</td>
<td>Psychology 1A</td>
</tr>
<tr>
<td>PTRL1010</td>
<td>6</td>
<td>Introduction to the Petroleum Industry</td>
</tr>
<tr>
<td>SOLA1070</td>
<td>6</td>
<td>Sustainable Energy</td>
</tr>
</tbody>
</table>

**Free Electives**

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

*any course*

**General Education**

Students must take at least 12 UOC of the following courses.

*any General Education course*

**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.
Related Programs

Related Double Degree Programs

Bachelor of Engineering (Honours) - **BE(Hons)**
Bachelor of Engineering Science - **BEngSc**
**3132 Materials Science and Engineering (Honours) / Engineering Science**

Faculty: Faculty of Science, Faculty of Engineering
Campus: Kensington
Units of Credit: 240
Typical Duration: 5 Years

Read More

Bachelor of Engineering (Honours) - **BE (Hons)**
Bachelor of Engineering Science - **BEngSc**
**3773 Engineering (Honours) / Engineering Science**

Faculty: Faculty of Law, Faculty of Engineering
Campus: Kensington
Units of Credit: 240
Typical Duration: 5 Years

Read More

Related Programs

Bachelor of Engineering (Honours) - **BE (Hons)**
**3707 Engineering (Honours)**

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 192
Typical Duration: 4 Years

Read More
Program Requirements

Progression Requirements

Progression rules are in accordance with university policy.

For more information on university policy on progression requirements please visit Academic Progression.
Recognition of Achievement

University Medal

The University Medal is awarded to recognise outstanding academic performance by a bachelor degree student in line with the University Medal Policy and University Medal Procedure.

Award of Pass with Distinction

The Award of Pass with Distinction is awarded when a weighted average mark (WAM) of at least 75% has been achieved and at least 50% of the requirements of the award completed at UNSW. All eligible programs will award Pass with Distinction except in special circumstances where approval of Academic Board has been given for a program to opt out.

For more information, please visit:

Current Students Pass With Distinction
Program Fees

At UNSW fees are generally charged at course level and therefore dependent upon individual enrolment and other factors such as student's residency status. For generic information on fees and additional expenses of UNSW programs, click on one of the following:

- Domestic Students
- Commonwealth Supported Students
- International Students
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