Engineering (Honours)

3707 | 192 Units of Credit

Overview

The UNSW Bachelor of Engineering (Honours) is designed to equip you for a career as a professional engineer. We provide you with a solid background in mathematics, natural sciences and computing that will prepare you for learning knowledge and skills in an engineering discipline specialisation. You will get the chance to apply yourself to engineering design and enquiry projects, professional engineering practice, engineering and technical management and conduct research towards your thesis project.

The four year program is offered in 19 engineering disciplines (listed below). A flexible first year engineering stream is offered for students who wish to study engineering but choose to delay their choice of which branch of engineering to study until the end of Year 1.
Faculty of Engineering

Campus
Kensington

Study Level
Undergraduate

Typical duration
4 Years

Delivery Mode
Face-to-face

Intake Period
Term 1, Term 3

Academic Calendar
3+ Calendar

Minimum Units of Credit
192

Award type
Bachelors Honours

Award(s)
Bachelor of Engineering (Honours) - BE (Hons)

UAC Code
425000

CRICOS Code
056835E
Program Structure

Students must complete 192 UOC as a standalone program.

1. 168 UOC stream
2. 12 UOC General Education
3. 12 UOC Electives (Foundational Disciplinary or Disciplinary Knowledge Courses)

All students are also required to complete 60 days of Industrial Training.

Majors

Students must complete at least one of the specialisations below.

HONOURS:

AEROAH  |  168 UOC
Aerospace Engineering

BINFAH  |  168 UOC
Bioinformatics Engineering

CEICAH  |  168 UOC
Chemical Engineering

CEICDH  |  168 UOC
Chemical Product Engineering

COMPBH  |  168 UOC
Computer Engineering

CVENAH  |  168 UOC
Civil Engineering

CVENBH  |  168 UOC
Environmental Engineering
<table>
<thead>
<tr>
<th>Short Code</th>
<th>UOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECAH</td>
<td>168</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td></td>
</tr>
<tr>
<td>GMATDH</td>
<td>168</td>
</tr>
<tr>
<td>Surveying</td>
<td></td>
</tr>
<tr>
<td>GMATEH</td>
<td>168</td>
</tr>
<tr>
<td>Geospatial Engineering</td>
<td></td>
</tr>
<tr>
<td>MANFBH</td>
<td>168</td>
</tr>
<tr>
<td>Mechanical and Manufacturing Engineering</td>
<td></td>
</tr>
<tr>
<td>MECHAH</td>
<td>168</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td></td>
</tr>
<tr>
<td>MINEAH</td>
<td>168</td>
</tr>
<tr>
<td>Mining Engineering</td>
<td></td>
</tr>
<tr>
<td>MTRNAH</td>
<td>168</td>
</tr>
<tr>
<td>Mechatronic Engineering</td>
<td></td>
</tr>
<tr>
<td>PETRAH</td>
<td>168</td>
</tr>
<tr>
<td>Petroleum Engineering</td>
<td></td>
</tr>
<tr>
<td>SENGAH</td>
<td>168</td>
</tr>
<tr>
<td>Software Engineering</td>
<td></td>
</tr>
<tr>
<td>SOLAHAH</td>
<td>168</td>
</tr>
<tr>
<td>Photovoltaics and Solar Energy</td>
<td></td>
</tr>
<tr>
<td>SOLABH</td>
<td>168</td>
</tr>
<tr>
<td>Renewable Energy Engineering</td>
<td></td>
</tr>
<tr>
<td>TELEAH</td>
<td>168</td>
</tr>
<tr>
<td>Telecommunications</td>
<td></td>
</tr>
</tbody>
</table>
Discipline Elective List

Students must take 12 UOC from the Discipline Elective List for the engineering specialisation. Students should check the details in the specialisation page.

General Education

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

any General Education course

Level 3 Maturity Requirements

Students must have completed 42 UOC before taking any of the following courses.

any level 3 course

Level 4 Maturity Requirements

Students must have completed 102 UOC before taking any of the following courses.

any level 4 course

Industrial Experience Requirement

Students must each complete at least 60 days approved industrial training concurrent with enrolment in the program.

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 Science (Advanced Mathematics) (Honours) - BSc(AdvMath)(Hons)
Bachelor of Engineering (Honours) - BE (Hons)

3761 Advanced Mathematics (Honours) / Engineering (Honours)

Faculty: Faculty of Science, Faculty of Engineering
Campus: Kensington
Units of Credit: 288
Typical Duration: 6 Years

Read More

Bachelor of Advanced Science (Honours) - BAdvSci(Hons)
Bachelor of Engineering (Honours) - BE (Hons)

3762 Advanced Science (Honours) / Engineering (Honours)

Faculty: Faculty of Science, Faculty of Engineering
Campus: Kensington
Units of Credit: 288
Typical Duration: 6 Years

Read More

Bachelor of Engineering (Honours) - BE (Hons)
Bachelor of Commerce - BCom

3764 Engineering (Honours) / Commerce

Faculty: Faculty of Engineering, UNSW Business School
Campus: Kensington
Units of Credit: 264
Typical Duration: 5.7 Years

Read More

Bachelor of Engineering (Honours) - BE (Hons)
Bachelor of Laws - LLB

3765 Engineering (Honours) / Law

Faculty: Faculty of Law, Faculty of Engineering
Campus: Kensington
Units of Credit: 312
Typical Duration: 6.7 Years

Read More

**Bachelor of Music - BMus**

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

**3766 Music / Engineering (Honours)**

Faculty: Faculty of Arts and Social Sciences, Faculty of Engineering  
Campus: Kensington  
Units of Credit: 312  
Typical Duration: 6.7 Years

Read More

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

**Bachelor of Science - BSc**

**3767 Engineering (Honours) / Science**

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

Read More

**Bachelor of Music (Honours) - BMus (Hons)**

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

**3769 Music (Honours) / Engineering (Honours)**

Faculty: Faculty of Arts and Social Sciences, Faculty of Engineering  
Campus: Kensington  
Units of Credit: 312  
Typical Duration: 6.7 Years

Read More

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

**Bachelor of Engineering Science - BEngSc**

**3773 Engineering (Honours) / Engineering Science**

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

Read More
Bachelor of Engineering (Honours) - **BE (Hons)**
Bachelor of Surveying - **BSurv**
**3776 Engineering (Honours) / Surveying**

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

Read More

Bachelor of Engineering (Honours) - **BE (Hons)**
Bachelor of Science - **BSc**
**3785 Engineering (Honours) / Computer Science**

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

Read More

Bachelor of Engineering (Honours) - **BE (Hons)**
Bachelor of Arts - **BA**
**3961 Engineering (Honours) / Arts**

Faculty: Faculty of Engineering, Faculty of Arts and Social Sciences  
Campus: Kensington  
Units of Credit: 264  
Typical Duration: 5.7 Years

Read More
Program Requirements

Progression Requirements

Students must show cause not to be excluded from the program if they have any of the following:

2 fails in any given core course

after half or more of the BE stream attempted (more than 84UOC), 50% or more of BE stream courses have been failed

prior to the final 48 UOC of the stream (120 UOC or more of the BE stream completed), a WAM of less than 50%.

For more information on university policy on progression requirements please visit Academic Progression.
Pathways

Post Graduate

**Doctor of Philosophy - PhD**

**1010 Chemical Engineering**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 144  
Typical Duration: 3 to 4 Years  

Read More

**Doctor of Philosophy - PhD**

**1016 Industrial Chemistry**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 144  
Typical Duration: 3 to 4 Years  

Read More

**Doctor of Philosophy - PhD**

**1017 Petroleum Engineering**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 144  
Typical Duration: 3 to 4 Years  

Read More

**Doctor of Philosophy - PhD**

**1031 Food Science and Technology**

Faculty: Faculty of Engineering  
Campus: Kensington  
Units of Credit: 144  
Typical Duration: 3 to 4 Years  

Read More

**Doctor of Philosophy - PhD**

**1050 Mining Engineering**
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Doctor of Philosophy - PhD
1630 Civil & Environmental Eng

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Doctor of Philosophy - PhD
1640 Electrical Engineering

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Doctor of Philosophy - PhD
1650 Computer Science and Eng

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Doctor of Philosophy - PhD
1655 Photovoltaic Engineering

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Doctor of Philosophy - PhD
1662 Mechanical & Manufacturing Eng

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 to 4 Years

Read More
Graduate Diploma in Food Science - GradDipFoodSci
5037 Food Science

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years

Read More
Graduate Diploma in Mining Engineering - GradDipMinEng
5335 Mining Engineering

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years

Read More
Graduate Diploma in Engineering Science - GradDipEngSc
5341 Engineering Science

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years

Read More
Graduate Diploma - GradDip
5449 Engineering (Biomedical Engineering)

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 48
Typical Duration: 1 Years

Read More
Graduate Diploma - GradDip
5543 Information Technology

Faculty: Faculty of Engineering
Campus: Kensington
Graduate Certificate - GradCert
7335 Mining Engineering
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 24
Typical Duration: 0.7 Years

Graduate Certificate - GradCert
7543 Computing
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 24
Typical Duration: 0.7 Years

Master of Science - MSc
8037 Food Science
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 96
Typical Duration: 2 Years

Master of Mining Engineering - MMinEng
8335 Mining Engineering
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 72
Typical Duration: 1.7 Years

Master of Engineering Science - MEngSc
8338 Engineering Science
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 96
Typical Duration: 2 Years

Read More

Master of Information Technology - MIT
8543 Information Technology

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 96
Typical Duration: 2 Years

Read More

Master of Biomedical Engineering - MBiomedE
8660 Biomedical Engineering

Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 72
Typical Duration: 1.7 Years

Read More
Professional Outcomes

Accreditations

Professional institutes that offer accreditation on completion of this program:

- Engineers Australia

Career Opportunities

From your second year, you can specialise in a particular field of engineering. Refer to the various engineering degrees for examples of career opportunities.
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.
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
© UNSW Sydney (CRICOS Provider No.: 00098G), 2019. The information contained in this Handbook is indicative only. While every effort is made to keep this information up-to-date, the University reserves the right to discontinue or vary arrangements, programs and courses at any time without notice and at its discretion. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses and staff after enrolment. The University may also set limits on the number of students in a course.

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