Overview

This dual degree program is specifically designed for undergraduate students wishing to pursue a career in either Engineering or Biomedical Engineering. Biomedical Engineering is the application of engineering principles to developing technologies and solving problems in a diverse range of health care related fields e.g. implantable bionics, drug delivery systems, medical imaging, radiotherapies, orthopedic devices, telemedicine, robotic surgery, cell and tissue engineering, records management, physical rehabilitation and others. This program is integrated to provide fundamental engineering skills with an undergraduate focus on an engineering discipline and specialist postgraduate level training in Biomedical Engineering.

At the end of the program successful candidates will graduate with a Bachelor in Engineering (Honours) and a Masters in Biomedical Engineering. Students are expected to perform at a credit average (65%) or better in their first three years to be permitted to continue with the Masters part of the program. Students who do not satisfy this requirement can revert to the Bachelor of Engineering (Honours) program.

This dual program is currently offered for the following BE (Hons) specialisations only:

- Bioinformatics Engineering
- Chemical Engineering
- Computer Engineering
- Electrical Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Software Engineering
- Telecommunications
<table>
<thead>
<tr>
<th>Faculty</th>
<th>Faculty of Engineering</th>
</tr>
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<tbody>
<tr>
<td>Campus</td>
<td>Kensington</td>
</tr>
<tr>
<td>Study Level</td>
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<td>Typical duration</td>
<td>5 Years</td>
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<td>Intake Period</td>
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<td>Academic Calendar</td>
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<td>Minimum Units of Credit</td>
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<td>Bachelor of Engineering (Honours) - BE (Hons)</td>
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Program Structure

Students must complete 240 UOC as a standalone program.

Biomedical Engineering Specialisation Requirements

Students must complete at least one of the specialisations below.

SPECIALISATION:

BIOMDS | 72 UOC
Biomedical Engineering (Dual Mode)

Engineering (Honours) Specialisation Requirements

Students must complete at least one of the specialisations below.

HONOURS:

BINFAH | 168 UOC
Bioinformatics Engineering

CEICAH | 168 UOC
Chemical Engineering

COMPBH | 168 UOC
Computer Engineering

ELECAH | 168 UOC
Electrical Engineering

MECHAH | 168 UOC
Mechanical Engineering

MTRNAH | 168 UOC
Mechatronic Engineering
General Education

Students must take 6 UOC of the following courses.

Note: Students must substitute a depth elective from the BE (Hons) stream or an elective from the Biomedical Engineering program to satisfy the General Education requirement for this program.

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.
Program Requirements

**Progression Requirements**

If any of the conditions below apply, students will be transferred to the Bachelor of Engineering Science program, with such transfer subject to appeal:

- 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](#).
Professional Outcomes

Professional Recognition

Engineers Australia The professional body for engineering in Australia is Engineers Australia, which has as its first objective the promotion of the science and practice of engineering in all its branches. Engineers Australia has its national headquarters in Canberra and functions through a series of divisions, the local one being the Sydney Division. Within each division are branches representing the main interests within the profession, e.g. civil, mechanical, electrical, engineering management and environmental engineering. Students of an approved school of engineering may join the Institution as a student member (StudIEAust). Student members receive the monthly publication Engineers Australia and for a small fee they also receive The Transactions which contains articles on a particular branch of engineering. Student members are invited to participate in the Excellence Award for Work Experience, the National Young Engineer of the Year Award and to avail themselves of other Engineers Australia services including the Mentor Scheme and industrial experience guidance. For more information and membership application forms, contact Engineers Australia, Sydney Division, Level 3, 8 Thomas Street, CHATSWOOD NSW 2067 - telephone 02 9410 5600 www.engineersaustralia.org.au

Career Opportunities

Biomedical engineer working in hospitals, regulatory bodies, research and development companies, university research, telemedicine, medical device and biotechnology industries.
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.

Honours Classes

Bachelor of Engineering (Honours)

Honours is awarded as part of the Bachelor of Engineering (Honours) part of the program only. In addition, classes of honours are determined based on meritorious performance over the 168 UOC which forms the BE (Hons). The classes are awarded as follows:

- Class 1: WAM of at least 80 and Thesis Mark of at least 65
- Class 2 Division 1: WAM of at least 75 and Thesis Mark of at least 65
- Class 2 Division 2: WAM of at least 65 and Thesis Mark of at least 65

Honours WAM

Courses will be weighted according to the following:

- General Education: 1
- Level 1 Courses: 1
- Level 2 Courses: 2
- Level 3 Courses: 3
- Level 4 Courses: 4

First attempt counts and Honours WAM to be calculated to one decimal place.
Additional Information

Award with Excellence

A student may also be eligible for the Award with Excellence for the Master’s degree.
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)