Double Degree

Engineering (Honours) / Computer Science

3785

Students may seek to undertake a five-year full-time dual degree program leading to the award of the degrees of Bachelor of Engineering (Honours) and Bachelor of Science (Computer Science) (BE (Hons) BSc). The Faculty of Engineering administers the program, and delegates administration to the School which offers the Engineering discipline selected. Students should seek advice from the relevant School Office in the first instance, from the Faculty of Engineering, or from the School of Computer Science and Engineering for the Science component.

With this dual degree program, students take the 168 units of credit core of the Bachelor of Engineering (Honours) 3707 and the 96 units of credit core of the Bachelor of Science (Computer Science) program 3778. Because of the overlap of 24 units of credit of Science courses in both core, the total units of credit required for completion is 240 UOC, rather than 264 UOC (please see Academic Rules below for more details).
Faculty
Faculty of Engineering

Campus
Kensington

Study Level
Undergraduate

Typical duration
5 Years

Academic Calendar
3+ Calendar

Minimum Units of Credit
240

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

UAC Code
425850

CRICOS Code
085916G
Learning Outcomes

Graduate Capabilities:

For more information on Graduate Capabilities, please click on this link.
Stand Alone Programs

Click on the link below to find out more about each individual program.

Program 3707
Engineering (Honours)

Program 3778
Computer Science
Double Degree Structure

Students must complete 240 UOC.

1. 168 UOC plus at least 60 days of approved Industrial Training experience
2. At least 48 UOC Disciplinary Knowledge and Enquiry-based Courses
3. 30-42UOC Introductory Knowledge core courses
4. At least 12 UOC of elective courses
5. The balance of stream to consist of Foundation Disciplinary Knowledge Courses
6. 96 UOC Computer Sciences courses

Majors

3707 - Engineering (Honours)

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
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Civil Engineering</td>
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<tr>
<td>CVENBH 168 UOC</td>
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<tr>
<td>Environmental Engineering</td>
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<tr>
<td>ELECAH 168 UOC</td>
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<td>Electrical Engineering</td>
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<tr>
<td>GMATDH 168 UOC</td>
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<tr>
<td>Surveying</td>
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<tr>
<td>GMATEH 168 UOC</td>
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<tr>
<td>Geospatial Engineering</td>
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<tr>
<td>MANFBH 168 UOC</td>
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<tr>
<td>Mechanical and Manufacturing Engineering</td>
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<td>MECHAH 168 UOC</td>
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<tr>
<td>Mechanical Engineering</td>
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<td>MINEAH 168 UOC</td>
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<td>Mining Engineering</td>
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<td>MTRNAH 168 UOC</td>
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<tr>
<td>Mechatronic Engineering</td>
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<tr>
<td>PETRAH 168 UOC</td>
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<td>Petroleum Engineering</td>
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<td>SENGAH 168 UOC</td>
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<td>Software Engineering</td>
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<tr>
<td>SOLAAH 168 UOC</td>
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<tr>
<td>Photovoltaics and Solar Energy</td>
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Majors

3778 - Computer Science

COMPA1 is the default stream, and will be used if no other stream is selected.

MAJOR:

COMPA1 | 96 UOC
Computer Science

COMPD1 | 96 UOC
Computer Science (Database Systems)

COMPE1 | 96 UOC
Computer Science (eCommerce Systems)

COMPI1 | 96 UOC
Computer Science (Artificial Intelligence)

COMPJ1 | 96 UOC
Computer Science (Programming Languages)

COMPN1 | 96 UOC
Computer Science (Computer Networks)

COMPS1 | 96 UOC
Computer Science (Embedded Systems)

COMPY1 | 96 UOC
Computer Science (Security Engineering)
**General Education**

3707 - Engineering (Honours)

Students must take 6 UOC of the following courses.

Note: Students completing the dual award Bachelor of Engineering (Honours)/Bachelor of Science in Computer Science complete 12 UOC of General Education courses in place of 12 UOC free electives from the Bachelor of Science in Computer Science.

any General Education course

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**General Education**

3778 - Computer Science

Students must take at least 6 UOC of the following courses.

any General Education course

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**Level 3 Maturity Requirements**

3707 - Engineering (Honours)

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

any level 3 course

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**Level 4 Maturity Requirements**

3707 - Engineering (Honours)

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

any level 4 course

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**Maximum Level 1 Electives UOC**

3778 - Computer Science

Students may only undertake a maximum of 60 UOC of the following courses.

any level 1 course
3785 Double Degree rules

3785 - Engineering (Honours) / Computer Science

BINFAH and COMPBH and SENGAH are not allowed in this dual.

For the Eng (Hons)/BSc (Comp Sc) dual award program 3785, the following rule applies:

- COMP1521 is counted towards the BE as a first year elective
- COMP4920 is waived in the BSc in favour of the management or ethics course in the BE
- Students instead take 12 UOC General Education

Industrial Experience Requirement

3707 - Engineering (Honours)

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

Intra-Faculty Dual Awards

3707 - Engineering (Honours)

For intra-Faculty dual awards 3772 Engineering (Honours)/Computer Science and 3773 Engineering (Honours)/Engineering Science, 24 UOC are common and therefore counted towards both awards.

Excluded Majors

3778 - Computer Science

Students enrolled in the dual award Bachelor of Engineering (Honours)/Bachelor of Science in Computer Science are not permitted to declare a Bioinformatics Engineering, Computer Engineering, or Software Engineering major in the Bachelor of Engineering (Honours).

General Education

3778 - Computer Science

Students completing the dual award Bachelor of Engineering (Honours)/Bachelor of Science in Computer Science complete 12 UOC of General Education courses in
place of 12 UOC free electives from the Bachelor of Science in Computer Science.

Please read the Double Degree Program rules as some specific rules apply to particular Double Degree combinations.

**Enrolment Disclaimer**

You are 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. Do not assume that because you have enrolled in a course that the course will be credited towards your program.
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