Double Degree

Engineering (Honours) / Surveying

3776 | 240 Units of Credit

Overview

This dual award program is designed to allow students to gain accreditation as both Engineers and Surveyors through students completing the the Civil Engineering stream of the Bachelor of Engineering (Honours) program 3707 in combination with the Bachelor of Surveying 3775. This allows students flexibility in their future careers.

Students are able to complete the Civil Engineering stream of the Bachelor of Engineering (Hons) program 3707 as well as the surveying core of the Bachelor of Surveying program 3775. Students will be eligible for accreditation as Civil Engineers with Engineers Australia, as well as Surveyors through the Institution of Surveyors NSW and the NSW Board of Surveying and Spatial Information (BOSSI).

Students should refer to the structure information pages for rules on the single programs and plans:
3707 Bachelor of Engineering (Honours) - Civil Engineering stream CVENAH3707
3775 Bachelor of Surveying
Faculty
Faculty of Engineering

Campus
Kensington

Study Level
Undergraduate

Typical duration
5 Years

Intake Period
Term 1, Term 3

Academic Calendar
3+ Calendar

Minimum Units of Credit
240

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

UAC Code
425402

CRICOS Code
088839C
Learning Outcomes

3707 - Engineering (Honours)

1. Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.

   - Scholars

2. Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline.

   - Scholars

3. In-depth understanding of specialist bodies of knowledge within the engineering discipline.

   - Scholars

4. Discernment of knowledge development and research directions within the engineering discipline.

   - Scholars

5. Knowledge of engineering design practice and contextual factors impacting the engineering discipline.

   - Global Citizens  Scholars  Professionals

6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline.

   - Professionals  Scholars  Global Citizens

7. Application of established engineering methods to complex engineering problem solving.

   - Scholars  Global Citizens  Professionals

8. Fluent application of engineering techniques, tools and resources.

   - Professionals  Scholars


   - Global Citizens  Professionals  Scholars

10. Application of systematic approaches to the conduct and management of engineering projects.

    - Scholars  Leaders  Global Citizens  Professionals

11. Ethical conduct and professional accountability.
12. Effective oral and written communication in professional and lay domains.

13. Creative, innovative and pro-active demeanour.

14. Professional use and management of information.

15. Orderly management of self, and professional conduct.

16. Effective team membership and team leadership.

**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 3775
Surveying
Double Degree Structure

Students must complete 240 UOC.

The Bachelor of Surveying program includes a 144 UOC depth component, made up of a 72 UOC Engineering Foundation and a 72 UOC Surveying Core. Since students complete the Engineering Foundation courses as part of their Civil Engineering stream, these courses will be double counted and reduce the total duration of the dual program by 72 UOC. Please contact the School of Civil and Environmental Engineering for academic advice including sample program information for the dual program.

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
Civil Engineering
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Surveying Core Courses

3775 - Surveying

Students must take 66 UOC of the following courses.

GMAT1110  |  6 UOC
Surveying and Geospatial Engineering

GMAT2120  |  6 UOC
Surveying and Geospatial Technology

GMAT2500  |  6 UOC
Surveying Computations A

GMAT2550  |  6 UOC
Surveying Computations B

GMAT2700  |  6 UOC
Foundations of Geodesy & Geospatial Ref Frames

GMAT3100  |  6 UOC
Surveying Applications and Design

GMAT3150  |  6 UOC
Surveying Field Projects

GMAT3220  |  6 UOC
Geospatial Information Systems

GMAT3420  |  6 UOC
Cadastral Surveying and Land Law
GMAT3500  |  6 UOC
Remote Sensing and Photogrammetry

GMAT3700  |  6 UOC
Geodetic Positioning and Applications

**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*

**General Education**

3775 - Surveying

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

*any General Education course*

**Level 3 Maturity Requirements**

3707 - Engineering (Honours)

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

*any level 3 course*

**Level 4 Maturity Requirements**

3707 - Engineering (Honours)

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

*any level 4 course*
Note

3776 - Engineering (Honours) / Surveying

This dual is only for CVENAH in combination with 3775 B Surveying

**Industrial Experience Requirement**

3707 - Engineering (Honours)

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

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

**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 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
Additional Information

Accreditation:

This Engineering component of this dual degree has the same accreditation status as the Bachelor of Engineering (Hons). For details please see Program 3707.
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