Program Code

BENG

Program Minimum Units

96

Standard Duration

4 Years

Program Faculty

Faculty of Engineering, Computer and Math Sciences

AQF Level

08

Academic Year

2016

These Program Rules should be read in conjunction with the University's policies (http://www.adelaide.edu.au/policies).

Overview

This program will provide students with skills and knowledge in the planning, design, construction and operation of engineered systems for a diverse range of constructions. This program combines civil and structural engineering, mechanical engineering and the creative design aspects from architecture. The first two years of the program build a scientific, architectural design and engineering foundation for the more specialist architectural engineering courses, which predominate in the third and fourth years. Students are also required to complete 12 weeks of approved practical experience during their study. Graduates of the program qualify for professional membership of Engineers Australia. The Bachelor of Engineering (Honours) (Civil and Architectural) is an AQF Level 8 qualification with a standard full-time duration of 4 years.

Academic Program Rules for Bachelor of Engineering (Honours) (Civil and Architectural) (BE(Hons)(CivArch))

There shall be a Bachelor of Engineering (Honours) (Civil and Architectural) (BE(Hons)(CivArch)).

Qualification Requirements

Academic Program

To qualify for the degree of Bachelor of Engineering (Honours) (Civil and Architectural), the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 96 units, comprising:

1. Courses to the value of 96 units, including Core courses to the value of 84 units and Elective courses to the value of 12 units
2. A total of 12 weeks practical experience approved by the Faculty and of which a minimum 6 weeks should be under the supervision of a professional engineer
3. Unless exempted, international students are required to take ENG 3003 Communication EAL in lieu of either a core or elective course as advised by the Faculty.
4. Students who have not undertaken SACE Stage 2 Specialist Mathematics (or equivalent) will be required to enrol in Mathematics IM, followed by Mathematics IA with Mathematics IB taken in Summer Semester to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IM is in addition to the normal requirements for the Bachelor of Engineering (Honours).

**Bachelor of Engineering (Honours) (Civil and Architectural)**

To satisfy the requirements for Bachelor of Engineering (Honours) (Civil and Architectural) students must complete courses to the value of 96 units.

**Core**

All of the following courses must be completed:

- C&ENVENG 1010 *Engineering Mechanics - Statics* (3 units)
- C&ENVENG 1012 *Engineering, Modelling & Analysis I* (3 units)
- C&ENVENG 1013 *Introduction to Architectural Engineering* (3 units)
- C&ENVENG 2025 *Strength of Materials II* (3 units)
- C&ENVENG 2069 *Geotechnical Engineering II* (3 units)
- C&ENVENG 2070 *Engineering Modelling & Analysis II* (3 units)
- C&ENVENG 2071 *Water Engineering II* (3 units)
- C&ENVENG 2072 *Structural Engineering Design* (3 units)
- C&ENVENG 3001 *Structural Mechanics III* (3 units)
- C&ENVENG 3005 *Structural Design III (Concrete)* (3 units)
- C&ENVENG 3007 *Structural Design III (Steel)* (3 units)
- C&ENVENG 3012 *Geotechnical Engineering Design III* (3 units)
- C&ENVENG 4034 *Engineering Management IV* (3 units)
- C&ENVENG 4068 *Computer Methods of Structural Analysis* (3 units)
- DESST 1504 *Representation I* (3 units)
- DESST 1507 *Construction I* (3 units)
- DESST 1508 *Environment I* (3 units)
- DESST 2517 *Environment II* (3 units)
- MATHS 1011 *Mathematics IA* (3 units)
- MATHS 1012 *Mathematics IB* (3 units)
- MATHS 2201 *Engineering Mathematics IIA* (3 units)
- DESST 1503 *Design Studio I* (6 units)
- DESST 2521 *History Theory II* (3 units)

and

Courses to the value of 3 units from the following:

- C&ENVENG 2067 *Construction, Management & Surveying* (3 units)
- MECH ENG 1007 *Engineering Mechanics - Dynamics* (3 units)

**Electives**

Courses to the value of 12 units from the following:

- C&ENVENG 4056 *Linear Geostatistics* (3 units)
- C&ENVENG 4069 *Advanced Reinforced Concrete* (3 units)
- C&ENVENG 4085 *Traffic Engineering & Design* (3 units)
- C&ENVENG 4106 *Introduction to Geostatistics* (3 units)
- C&ENVENG 4107 *Prestressed Concrete Structures* (3 units)
- C&ENVENG 4111 *Structural Dynamics & Applications* (3 units)
- C&ENVENG 4112 *Advanced Civil Geotechnical Engineering* (3 units)
- C&ENVENG 3077 *Engineering Hydrology* (3 units)
- C&ENVENG 3079 *Water Engineering & Design III* (3 units)
C&ENVENG 4113EX Christchurch Earthquake Study Tour (3 units)
DESST 3514 Construction III (3 units)
DESST 3517 Environment III (3 units)
DESST 3519 Advanced Architecture Technologies (3 units)
CHEM ENG 4051 Water & Wastewater Engineering (3 units)
MINING 3072 Mining Geomechanics (3 units)

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