Bachelor of Engineering (Honours) (Civil and Architectural) (BE(Hons)(CivArch))

2015

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.

Condition of Enrolment

Mathematics IM: Students who have not undertaken SACE Stage 2 Specialist Mathematics 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 of the Bachelor of Engineering (Honours).

1. Academic Program Rules for Bachelor of Engineering (Honours) (Civil and Architectural)

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

2. Qualification Requirements

2.1 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:

2.1.1 Core Courses

C&ENVENG 1010 Engineering Mechanics - Statics (3 units)

C&ENVENG 1012 Engineering Modelling & Analysis IA (3 units)

C&ENVENG 1013 Introduction to Architectural Engineering (3 units)
C&ENVENG 2025 Strength of Materials IIA (3 units)
C&ENVENG 2069 Geotechnical Engineering IIA (3 units)
C&ENVENG 2070 Engineering Modelling & Analysis IIA (3 units)
C&ENVENG 2071 Water Engineering IIA (3 units)
C&ENVENG 2072 Structural Engineering Design (3 units)
C&ENVENG 3001 Structural Mechanics IIIA (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 3221 Research Project Part A: Methodologies & Management (3 units)
C&ENVENG 4034 Engineering Management IV (3 units)
C&ENVENG 4068 Computer Methods of Structural Analysis (3 units)
C&ENVENG 4222 Research Project Part 1: Civil (3 units)
C&ENVENG 4223 Research Project Part 2: Civil (6 units)
DESST 1504 Representation I (3 units)
DESST 1505 History Theory I (3 units)
DESST 1506 Design Studio II (6 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)
MECH ENG 2021 Thermo-Fluids I (3 units)

2.1.2 Electives

Courses to the value of 9 units from the following:

C&ENVENG 4107 Prestressed Concrete Structures (3 units)
C&ENVENG 4099 Structural Response to Blast Loading (3 units)
C&ENVENG 4106 Introduction to Geostatistics (3 units)
C&ENVENG 4069 Advanced Reinforced Concrete  (3 units)
C&ENVENG 4056 Linear Geostatistics  (3 units)
CHEM ENG 4051 Water & Wastewater Treatment  (3 units)
C&ENVENG 4112 Advanced Civil Geotechnical Engineering  (3 units)
DESST 3519 Advanced Architecture Technologies  (3 units)
ENG 3003 Engineering Communication EAL^  (3 units)
MINING 3072 Mining Geomechanics  (3 units)
MINING 4102 Mine Geotechnical Engineering  (3 units)

or

other undergraduate courses offered by the University that are available to the student, with approval of the Head of School.

^Unless exempted by the Faculty, all international students are required to take this course and the Faculty will advise which course is to be replaced by ENG 3003 Engineering Communication EAL.

2.1.3 Extra Course Requirement

Students who have not taken SACE Stage 2 Specialist Mathematics (or equivalent) will be required to enrol in Mathematics IM, followed by Mathematics IA with Mathematics IB to complete the Mathematics requirements at Level I. The satisfactory completion of Mathematics IM is in addition to the 96 units for the Bachelor of Engineering (Honours):

MATHS 1013 Mathematics IM  (3 units)

2.1.4 Work Based Training / Extra Mural Studies

Students must complete 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.

2.1.5 Repeating Courses

A student who has failed a course twice may not enrol in that course again except by special permission of the Faculty and then only under such conditions as the Faculty may prescribe.

For all current Academic Programs Rules, visit:

The University of Adelaide Calendar website

For information about Programs and Courses, contact Ask Adelaide:

Telephone: +61 8 8313 5208
Freecall: 1800 061 459

Online enquiries: adelaide.edu.au/student/enquiries