Bachelor of Engineering (Honours) (Civil and Environmental) (BE(Hons)(CivEnv))

2015

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

Overview

This program includes a core of civil engineering analysis and design, along with detailed studies in environmental science and engineering. It has a particular emphasis on water resources management and pollution control. Computer-based methods are used extensively in the program. The first two years of the program build a mathematical, scientific and engineering design foundation for the third and fourth years where studies include professional engineering courses, specialisations, communication and management courses and project work. The program includes studies in environmental economics and environmental law.

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 Environmental) is an AQF Level 8 qualification with a standard full-time duration of 4 years.

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

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

2. Qualification Requirements

2.1 Academic Program

To qualify for the degree of Bachelor of Engineering (Honours) (Civil and Environmental), 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 1008 Engineering Planning & Design IA (3 units)
C&ENVENG 1009 Civil & Environmental Engineering IA (3 units)
C&ENVENG 1010 Engineering Mechanics - Statics (3 units)
C&ENVENG 1012 Engineering, Modelling & Analysis IA (3 units)
C&ENVENG 2067 Construction, Management & Surveying (3 units)
C&ENVENG 2068 Environmental Engineering & Sustainability II (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 3221 Research Project Part A: Methodologies & Management (3 units)
C&ENVENG 3029 Environmental Modelling & Management (3 units)
C&ENVENG 3077 Engineering Hydrology (3 units)
C&ENVENG 3079 Water Engineering & Design III S2 (3 units)
C&ENVENG 4037 Introduction to Environmental Law (3 units)
C&ENVENG 4108 Environmental Engineering Design IVA (3 units)
C&ENVENG 4109 Environmental Engineering Design IVB (3 units)
C&ENVENG 4110 Environmental Engineering Design IVC (3 units)
C&ENVENG 4034 Engineering Management IV (3 units)
C&ENVENG 4222 Research Project Part 1: Civil (3 units)
C&ENVENG 4223 Research Project Part 2: Civil (6 units)
CHEM ENG 2017 Transport Processes in the Environment (3 units)
CHEM ENG 4051 Water & Wastewater Engineering (3 units)
ECON 3500 Resource and Environmental Economics III (3 units)
ENV BIOL 1002 Ecological Issues I (3 units)
ENV BIOL 2005 Ecology for Engineers II (3 units)
MATHS 1011 Mathematics IA (3 units)
MATHS 1012 Mathematics IB (3 units)
MATHS 2201 Engineering Mathematics IIA (3 units)

plus

Courses to the value of at least 3 units from the following:

GEOLOGY 1104 Geology for Engineers I (3 units)
COMP SCI 1010 Puzzle Based Learning (3 units)

and

Courses to the value of at least 3 units from the following:

ENV BIOL 3012WT Integrated Catchment Management III (3 units)
C&ENVENG 3012 Geotechnical Engineering Design III (3 units)
2.1.2 Electives

Courses to the value of at least 3 units from the following:

Environmental Engineering

SOIL&WAT 3007WT GIS for Environmental Management III (3 units)
ENV BIOL 3012WT Integrated Catchment Management III (3 units)
MINING 4104 Socio-Environmental Aspects of Mining (3 units)
SOIL&WAT 3010 Remote Sensing III (3 units)

Geotechnical / Mining Engineering

C&ENVENG 3012 Geotechnical Engineering Design III (3 units)
C&ENVENG 4106 Introduction to Geostatistics (3 units)
C&ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units)
C&ENVENG 4056 Linear Geostatistics (3 units)

Water Engineering

C&ENVENG 4073 Water Distribution Systems & Design (3 units)
C&ENVENG 4114 Hydrological Modelling & Water Resources Management (3 units)
C&ENVENG 4115 Flood Estimation & Modelling (3 units)

Engineering Communication

ENG 3003 Engineering Communication EAL^ (3 units)

^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 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.

2.1.4 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