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

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
2017

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.

Academic Program Rules for Bachelor of Engineering (Honours) (Civil and Environmental) (BE(Hons)(CivEnv))
There shall be a Bachelor of Engineering (Honours) (Civil and Environmental) (BE(Hons)(CivEnv)).

Qualification Requirements
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, comprising:

1. Courses to the value of 96 units, including Core courses to the value of 90 units and Elective courses to the value of 6 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 Engineering Communication EAL in lieu of either a core or elective course as advised by the Faculty

Bachelor of Engineering (Honours) (Civil and Environmental)

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

Core

All of the following courses must be completed:

C&ENVENG 1008 Engineering Planning & Design I (3 units)
C&ENVENG 1009 Civil & Environmental Engineering I (3 units)
C&ENVENG 1010 Engineering Mechanics - Statics (3 units)
C&ENVENG 1012 Engineering, Modelling & Analysis I (3 units)
C&ENVENG 2067 Construction, Management & Surveying (3 units)
C&ENVENG 2068 Environmental Engineering & Sustainability 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 3012 Geotechnical Engineering Design III (3 units)
C&ENVENG 3029 Environmental Modelling & Management (3 units)
C&ENVENG 3077 Engineering Hydrology (3 units)
C&ENVENG 3079 Water Engineering & Design III (3 units)
C&ENVENG 3222 Research Methodologies and Project Management (3 units)
C&ENVENG 4034 Engineering Management IV (3 units)
C&ENVENG 4108 Environmental Systems Dynamics (3 units)
C&ENVENG 4109 Designing Water Resource Systems for Urban Environments (3 units)
C&ENVENG 4110 Soil & Groundwater Remediation (3 units)
C&ENVENG 4222A Research Project Part A: Civil (0 units)
C&ENVENG 4222B Research Project Part B: 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)
GEOLOGY 1104 Geology for Engineers I (3 units)
LAW 4100 Introduction to Environmental Law UG (3 units)
MATHS 1011 Mathematics IA (3 units)
MATHS 1012 Mathematics IB (3 units)
MATHS 2201 Engineering Mathematics IIA (3 units)

Electives

Courses to the value of 6 units from the following:

C&ENVENG 4056 Linear Geostatistics (3 units)
C&ENVENG 4073 Water Distribution Systems & Design (3 units)
C&ENVENG 4085 Traffic Engineering & Design (3 units)
C&ENVENG 4097 Analysis of Rivers & Sediment Transport (3 units)
C&ENVENG 4106 Introduction to Geostatistics (3 units)
C&ENVENG 4112 Advanced Civil Geotechnical Engineering (3 units)
C&ENVENG 4114 Advanced Hydrological Modelling & Water Resource Management (3 units)
C&ENVENG 4115 Advanced Topics in Flood Hydrology (3 units)
ENTREP 3900 eChallenge (3 units)
SOIL&WAT 3007WT GIS for Environmental Management III (3 units)
SOIL&WAT 3010 Remote Sensing III (3 units)
MINING 4104 Socio-Environmental Aspects of Mining (3 units)
Level II or III Mathematics Courses

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