

Program Code

BENGH

Program Minimum Units

96

Standard Duration

4 Years

Program Faculty

Faculty of Engineering, Computer and Math Sciences

AQF Level

08

Academic Year

2021

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.

The Bachelor of Engineering (Honours) (Architectural and Structural) is an AQF Level 08 qualification with a standard full-time duration of 4 year. This program is accredited by Engineers Australia and graduates of the program qualify for professional membership of Engineers Australia.

Conditions

Condition of enrolment

Interruption of program: Students must apply for permission from the Executive Dean or delegate before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

Academic Program Rules for Bachelor of Engineering (Honours) (Architectural and Structural) (BE(Hons) (ArchStruct))

There shall be a Bachelor of Engineering (Honours) (Architectural and Structural) (BE(Hons) (ArchStruct)).

Qualification Requirements Academic Program

To qualify for the degree of Bachelor of Engineering (Honours) (Architectural and Structural), 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:

Bachelor of Engineering (Honours) (Architectural and Structural) (BE(Hons) (ArchStruct))

1. Courses to the value of 96; Core courses up to the value of 93 units and 3 units of Electives.
2. A total of 8 weeks of approved engineering work placement is required. Students will need to enrol into the ENG 3100 Engineering Internship UG (0 units) course to complete this requirement.
3. Unless exempted, International students are required to take ENG 1011 Introduction to Engineering EAL in lieu of ENG 1001 Introduction to Engineering.
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) (Architectural and Structural)

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

Architectural and Structural

All of the following courses must be completed:

- CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
- CEME 2001 [Strength of Materials](#) (3 units)
- CEME 2002 [Structural Mechanics](#) (3 units)
- CEME 2004 [Introduction to Geo-engineering](#) (3 units)
- CEME 3001 [Computer Analysis of Structures and Structural Dynamics](#) (3 units)
- CEME 3002 [Reinforced Concrete Design](#) (3 units)
- CEME 3003 [Structural Steel Design](#) (3 units)
- CEME 3006 [Geotechnical Engineering](#) (3 units)
- CEME 4003 Wind and Earthquake Engineering (3 units)
- CEME 4050 Design Practice (3 units)
- DESST 1503 [Design Studio I](#) (6 units)
- DESST 1504 [Representation I](#) (3 units)
- DESST 1507 [Construction I](#) (3 units)
- DESST 2517 [Environment II](#) (3 units)
- DESST 2521 [History Theory II](#) (3 units)
- DESST 3513 [Design Studio V](#) (6 units)
- DESST 3514 [Construction III](#) (3 units)
- DESST 3517 [Environment III](#) (3 units)
- ENG 1001 [Introduction to Engineering](#) (3 units)
- ENG 1003 [Programming \(Matlab and Excel\)](#) (3 units)
- ENG 3004 [Systems Engineering and Industry Practice](#) (3 units)
- ENG 3005 [Research Methods and Project Management](#) (3 units)
- ENG 4001A Research Project Part A (3 units)
- ENG 4001B Research Project Part B (3 units)
- MATHS 1011 [Mathematics IA](#) (3 units)
- MATHS 1012 [Mathematics IB](#) (3 units)
- MATHS 2106 [Differential Equations for Engineers II](#) (3 units)
- MATHS 2107 [Statistics & Numerical Methods II](#) (3 units)

and

Courses to the value of up to 3 units may be taken from the following:

- PHYSICS 1510 [Physics IE: Mechanics and Thermodynamics](#) (3 units)
- MECH ENG 1007 [Engineering Mechanics - Dynamics](#) (3 units)

Architectural and Structural Electives

Courses to the value of 3 units from the following:

- CEME 3006 [Geotechnical Engineering](#) (3 units)
- CEME 4001 Advanced Reinforced Concrete Design (3 units)

CEME 4002 Finite Element Theory and Practice (3 units)
CEME 4007 Unsaturated Soils (3 units)
CEME 4008 Soil and Ground Water Remediation (3 units)
CHEM ENG 4051 [Water and Wastewater Engineering](#) (3 units)
ENG 4011 Engineering Geology (3 units)
MECH ENG 4118 [Finite Element Analysis of Structures](#) (3 units)

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