

**Program Code**

BEBAO

**Program Minimum Units**

120

**Standard Duration**

5 Years

**Program Faculty**

Faculty of Engineering, Computer and Math Sciences

**AQF Level**

08

**Academic Year**

2022

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

**Overview**

This program will prepare students to be Engineers for the 21st century - to develop sustainable solutions to some of the planet's most challenging problems resulting from climate change and population growth. Students in the program will develop solutions to real-world problems based on industry needs. These include ways to adapt to climate change and create resilient societies, to enable the renewable energy transition, to secure our water and food supplies, to protect society from pollution and natural hazards and to redesign products to reduce waste. In the arts program, students are able to specialise in areas of their choice by taking a 'major' (from one of 25 majors) and potentially a 'minor' (from a range of areas).

The Bachelor of Engineering (Honours) (Environmental & Climate Solutions) and Bachelor of Arts is an AQF Level 08 qualification with a standard full-time duration of 5 years. 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) (Environmental & Climate Solutions) and Bachelor of Arts (BE(Hons)(Env & Clim Sol) BA)**

There shall be a Bachelor of Engineering (Honours) (Environmental & Climate Solutions) and Bachelor of Arts (BE(Hons)(Env & Clim Sol) BA).

**Qualification Requirements**

**Academic Program**

To qualify for the combined degree of Bachelor of Engineering (Honours) (Environmental & Climate Solutions) and Bachelor of Arts, the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 120 units, comprising:

1. Courses to the value of 90 units; Core courses up to the value of 78 units and Elective courses to the value of 12 units.
2. Bachelor of Arts courses to the value of 30 units, including including Core courses to the value of 3 units, Elective courses to the value of 27 units and a major from the Bachelor of Arts
3. 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.
4. Unless exempted, International students are required to take ENG 1011 Introduction to Engineering EAL in lieu of ENG 1001 Introduction to Engineering
5. 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 of the Bachelor of Engineering (Honours)

## Bachelor of Engineering (Honours) (Environmental & Climate Solutions) and Bachelor of Arts

To satisfy the requirements for Bachelor of Engineering (Honours) (Environmental & Climate Solutions) and Bachelor of Arts students must complete courses to the value of 120 units.

### Environmental & Climate Solutions Core

All of the following courses must be completed:

- CEME 1001 [Introduction to Environmental Engineering](#) (3 units)
- CEME 1002 [Introduction to Infrastructure](#) (3 units)
- CEME 1003 [Resources and Energy in a Circular Economy](#) (3 units)
- CEME 2003 [Civil Engineering Hydraulics](#) (3 units)
- CEME 2004 [Introduction to Geo-engineering](#) (3 units)
- CEME 2005 [Transportation Engineering & Survey](#) (3 units)
- CEME 2006 [Climate & Environmental Change Impact Modelling](#) (3 units)
- CEME 3004 [Hydrology for Engineers](#) (3 units)
- CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
- CEME 3007 [Integrated Environment Planning and Impact Assessment](#) (3 units)
- CEME 4008 [Rem Soil & Groundwater Pol UG](#) (3 units)
- CEME 4009 [Decision Making for Sustainable Solutions](#) (3 units)
- CEME 4010 [Designing Water Resource Systems for Urban Environments](#) (3 units)
- CHEM ENG 2017 [Transport Processes in the Environment](#) (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)
- ENV BIOL 1002 [Ecological Issues I](#) (3 units)
- GEOG 2129 [Introductory Geographic Information Systems \(GIS\)](#) (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)

### Environmental & Climate Solutions Electives

Courses to the value of 12 units from the following:

- ENTREP 3000 [Innovation and Creativity](#) (3 units)

ENTREP 3006 [Energy Management, Economics & Policy](#) (3 units)  
CEME 4005 [Integrated Natural Hazard Risk Management](#) (3 units)  
CEME 4006 [Climate Risk and Resilience](#) (3 units)  
GEOG 2135 [Urban Futures](#) (3 units)  
GEOG 2139 [Environmental Management](#) (3 units)  
GEOG 2142 [Climate Change](#) (3 units)  
GEOLOGY 3502 [Mineral and Energy Resources III](#) (3 units)  
LAW 2511 [Environmental Law](#) (3 units)  
MINING 4104 Socio-Environmental Aspects of Mining (3 units)

### **Arts Courses**

All of the following courses must be completed:

Arts Core Competency (3 units)  
Level II Arts Elective (3 units)  
A Major from the degree of Bachelor of Arts (24 units)

Arts Core Competency and Electives courses may be chosen from the listed courses in the Program Rules for the degree of Bachelor of Arts. Students must complete a major in accordance with the Program Rules for the Bachelor of Arts.

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