

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 creating and maintaining the physical infrastructure of society while managing and conserving natural resources. The program has an emphasis on engineering problem-solving and design and analysis using modern, computer-based methods. All Engineering students will complete a common first year before branching out into their disciplines, majors and/or a choice of thematic minors. The first and second years of the program develop mathematics and science skills, with fundamental engineering and design courses. Third and fourth years enable students to specialise and focuses on project based learning. Students can choose to study majors in Construction Management, Environmental Engineering, Geotechnical Engineering, Structural Engineering and Water Systems. Students can also choose a range of thematic majors such as Defence Systems, Renewable Energy and Smart Technologies or minors in Entrepreneurship and Humanitarian Engineering.

The Bachelor of Engineering (Honours) (Civil) is an AQF Level 08 qualification with a standard full-time duration of 4 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) (Civil) (BE(Hons)(Civil))

There shall be a Bachelor of Engineering (Honours) (Civil) (BE(Hons)(Civil)).

Bachelor of Engineering (Honours) (Civil) (BE(Hons)(Civil))

Qualification Requirements

Academic Program

To qualify for the degree of Bachelor of Engineering (Honours) (Civil), 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; Core courses up to the value of 72 units and Elective courses to the value of 24 with the option of a major in one of the following:
 - Construction Management
 - Defence Systems
 - Environmental Engineering
 - Geotechnical Engineering
 - Renewable Energy
 - Smart Technologies
 - Structural Engineering
 - Water Systems
2. An Entrepreneurship or Humanitarian minor can be presented in lieu of available electives within the program.
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

Bachelor of Engineering (Honours) (Civil)

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

Core Courses

All of the following courses must be completed:

- CEME 1002 [Introduction to Infrastructure](#) (3 units)
- CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
- CEME 2001 [Strength of Materials](#) (3 units)
- CEME 2002 [Structural Mechanics](#) (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 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 3004 [Hydrology for Engineers](#) (3 units)
- CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
- CEME 3006 [Geotechnical Engineering](#) (3 units)
- CEME 4050 Design Practice (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)

Civil Electives

Level I Electives to the value of 3 units

- CEME 1001 [Introduction to Environmental Engineering](#) (3 units)
- CEME 1003 [Resources and Energy in a Circular Economy](#) (3 units)
- CHEM ENG 1007 [Introduction to Process Engineering](#) (3 units)
- CONMGNT 1000 [Civil Engineering Construction Materials](#) (3 units)
- CONMGNT 1001 [Construction Estimation and Surveying](#) (3 units)
- ELEC ENG 1101 [Electronic Systems](#) (3 units)
- MECH ENG 1007 [Engineering Mechanics - Dynamics](#) (3 units)

and

Courses to the value of 15 units from the following:

- CEME 4001 Advanced Reinforced Concrete Design (3 units)
- CEME 4002 Finite Element Theory and Practice (3 units)
- CEME 4003 Wind and Earthquake Engineering (3 units)
- CEME 4004 Advanced Water Distribution Systems Engineering (3 units)
- CEME 4005 Advanced Hydrological Modelling & Water Resource Systems (3 units)
- CEME 4006 Advanced Hydrology and Flood Hydraulics (3 units)
- CEME 4007 Unsaturated Soils (3 units)
- CEME 4008 Soil and Ground Water Remediation (3 units)
- CEME 4009 Environmental Decision Making (3 units)
- CEME 4010 Designing Water Resource Systems for Urban Environments (3 units)
- CHEM ENG 4051 [Water and Wastewater Engineering](#) (3 units)
- ENG 4011 Engineering Geology (3 units)

and

Courses to the value of 6 units from the following:

Electives may be any University of Adelaide Undergraduate course for which the student meets the pre-requisites. Please check the availability, restriction and incompatible section on the course planner for elective choices.

Bachelor of Engineering (Honours) (Civil) - Construction Management Major

All of the following courses must be completed:

- CEME 1002 [Introduction to Infrastructure](#) (3 units)
- CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
- CEME 2001 [Strength of Materials](#) (3 units)
- CEME 2002 [Structural Mechanics](#) (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 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 3004 [Hydrology for Engineers](#) (3 units)
- CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
- CEME 3006 [Geotechnical Engineering](#) (3 units)
- CEME 4050 Design Practice (3 units)
- DESST 1504 [Representation I](#) (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)
- 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

Level I Civil electives to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

All of the following courses must be completed:

Construction Management Major

DESST 2518 [Construction II](#) (3 units)

DESST 3514 [Construction III](#) (3 units)

ENG 3301 Construction Management and Technology I (3 units)

ENG 3302 Cost Planning and Management (3 units)

ENG 3303 Construction Management and Technologies (3 units)

ENG 3304 Development and Construction (3 units)

ENG 4001A Research Project Part A (3 units)

ENG 4001B Research Project Part B (3 units)

Bachelor of Engineering (Honours) (Civil) - Defence Systems Major

To satisfy the requirements for Bachelor of Engineering (Honours) (Civil) - Defence Systems Major students must complete courses to the value of 96 units.

All of the following courses must be completed:

CEME 1002 [Introduction to Infrastructure](#) (3 units)

CEME 1004 [Engineering Mechanics - Statics](#) (3 units)

CEME 2001 [Strength of Materials](#) (3 units)

CEME 2002 [Structural Mechanics](#) (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 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 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)

CEME 3006 [Geotechnical Engineering](#) (3 units)

CEME 3004 [Hydrology for Engineers](#) (3 units)

CEME 4050 Design Practice (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)

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

Level I Civil elective to the value of 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Elective to the value 3 units

and

All of the following courses must be completed:

Defence Systems Major

CEME 3007 [Integrated Environment Planning and Impact Assessment](#) (3 units)
CEME 4009 Environmental Decision Making (3 units)
ENG 3305 [Human Factors for Decision Making](#) (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)
ENG 4010 Defence Leadership (3 units)
ENG 4020 Complex Systems Engineering (3 units)
POLIS 1104 [Introduction to Comparative Politics](#) (3 units)

Bachelor of Engineering (Honours) (Civil) - Environmental Engineering Major

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

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 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 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 3006 [Geotechnical Engineering](#) (3 units)
CEME 4050 Design Practice (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)
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

Level I Civil elective to the value of 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General elective to the value 3 units

and

All of the following courses must be completed:

Environmental Engineering Major

CEME 2006 [Environmental Modelling and Simulation](#) (3 units)
CEME 4005 Advanced Hydrological Modelling & Water Resource Systems (3 units)
CEME 4008 Soil and Ground Water Remediation (3 units)
CEME 4009 Environmental Decision Making (3 units)
CEME 4010 Designing Water Resource Systems for Urban Environments (3 units)
CHEM ENG 4051 [Water and Wastewater Engineering](#) (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)

Bachelor of Engineering (Honours) (Civil) - Geotechnical Engineering Major

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

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 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 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 4005 Advanced Hydrological Modelling & Water Resource Systems (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)
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

Level I Civil Electives to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Elective to the value 6 units

and

All of the following courses must be completed:

Geotechnical Engineering Major

CEME 3006 [Geotechnical Engineering](#) (3 units)
CEME 4007 Unsaturated Soils (3 units)
CEME 4008 Soil and Ground Water Remediation (3 units)
CEME 4050 Design Practice (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)
ENG 4011 Engineering Geology (3 units)
MINING 4102 [Mine Geotechnical Engineering](#) (3 units)

Bachelor of Engineering (Honours) (Civil) - Renewable Energy Major

To satisfy the requirements for Bachelor of Engineering (Honours) (Civil) - Renewable Energy Major students must complete courses to the value of 96 units.

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 3001 [Computer Analysis of Structures and Structural Dynamics](#) (3 units)

Bachelor of Engineering (Honours) (Civil) (BE(Hons)(Civil))

CEME 3002 [Reinforced Concrete Design](#) (3 units)
CEME 3003 [Structural Steel Design](#) (3 units)
CEME 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 3006 [Geotechnical Engineering](#) (3 units)
CEME 4050 Design Practice (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)
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

Level I Civil Elective to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Elective to the value 3 units

and

All of the following courses must be completed:

Renewable Energy Major

CEME 3007 [Integrated Environment Planning and Impact Assessment](#) (3 units)
CEME 4009 Environmental Decision Making (3 units)
CHEM ENG 4048 [Biofuels, Biomass and Wastes](#) (3 units)
ELEC ENG 4111 [Distributed Generation Technologies](#) (3 units)
ELEC ENG 1101 [Electronic Systems](#) (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)
MECH ENG 4064 Renewable Power Technologies (3 units)

Bachelor of Engineering (Honours) (Civil) - Smart Technologies Major

To satisfy the requirements for Bachelor of Engineering (Honours) (Civil) - Smart Technologies Major students must complete courses to the value of 96 units.

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 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 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 3006 [Geotechnical Engineering](#) (3 units)
CEME 4050 Design Practice (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)
MATHS 1011 [Mathematics IA](#) (3 units)

Bachelor of Engineering (Honours) (Civil) (BE(Hons)(Civil))

MATHS 1012 [Mathematics IB](#) (3 units)
MATHS 2106 [Differential Equations for Engineers II](#) (3 units)
MATHS 2107 [Statistics & Numerical Methods II](#) (3 units)

and

Level I Civil Elective to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Elective to the value 3 units

and

All of the following courses must be completed:

Smart Technologies Major

COMP SCI 1102 [Object Oriented Programming](#) (3 units)
COMP SCI 2103 [Algorithm Design & Data Structures](#) (3 units)
COMP SCI 3001 [Computer Networks & Applications](#) (3 units)
COMP SCI 3305 [Parallel and Distributed Computing](#) (3 units)
COMP SCI 4812 [Secure Software Engineering](#) (3 units)
MECH ENG 3032 [Micro-Controller Programming](#) (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)

Bachelor of Engineering (Honours) (Civil) - Structural Engineering Major

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

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 3006 [Geotechnical Engineering](#) (3 units)
CEME 4050 Design Practice (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)
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

Level I Civil Elective to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Electives to the value 12 units

and

All of the following courses must be completed:

Structural Engineering Major

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 4001 Advanced Reinforced Concrete Design (3 units)
CEME 4002 Finite Element Theory and Practice (3 units)
CEME 4003 Wind and Earthquake Engineering (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)

Bachelor of Engineering (Honours) (Civil) - Water Systems Major

To satisfy the requirements for Bachelor of Engineering (Honours) (Civil) - Water Systems Major students must complete courses to the value of 96 units.

CEME 1002 [Introduction to Infrastructure](#) (3 units)
CEME 1004 [Engineering Mechanics - Statics](#) (3 units)
CEME 2001 [Strength of Materials](#) (3 units)
CEME 2002 [Structural Mechanics](#) (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 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)
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)
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

Level 1 Civil Elective to the value 3 units - (Choose Elective from courses listed in Bachelor of Engineering (Honours) (Civil))

and

General Elective to the value 12 units

and

All of the following courses must be completed:

Water Systems Major

CEME 3004 [Hydrology for Engineers](#) (3 units)
CEME 3005 [Advanced Civil Engineering Hydraulics](#) (3 units)
CEME 4004 Advanced Water Distribution Systems Engineering (3 units)
CEME 4005 Advanced Hydrological Modelling & Water Resource Systems (3 units)
CEME 4006 Advanced Hydrology and Flood Hydraulics (3 units)
CEME 4050 Design Practice (3 units)
ENG 4001A Research Project Part A (3 units)
ENG 4001B Research Project Part B (3 units)

Humanitarian Minor

To satisfy the requirements for Humanitarian Minor students must complete courses to the value of 12 units.

Humanitarian Minor

All of the following courses must be completed:

ENG 3201 Essentials of Humanitarian Practice (3 units)

PROJMGNT 3030 [Project Logistics and Supply Chains](#) (3 units)

and

Courses to the value of 3 units from the following:

SPATIAL 3007WT [GIS for Environmental Management III](#) (3 units)

SPATIAL 3020WT [GIS for Agriculture & Natural Resource III](#) (3 units)

and

Courses to the value of 3 units from the following:

DEVT 2100 [Poverty and Social Development](#) (3 units)

DEVT 2101 [Empowerment & Development: Community & Gender](#) (3 units)

Entrepreneurship Minor

To satisfy the requirements for Entrepreneurship Minor students must complete courses to the value of 12 units.

Entrepreneurship Minor

All of the following courses must be completed:

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

ENTREP 3011 [Startup Methodologies](#) (3 units)

ENTREP 3015 [Entrepreneurial Leadership](#) (3 units)

and

Courses to the value of 3 units from the following:

ENTREP 3900 [eChallenge](#) (3 units)

ENTREP 3901 [Tech eChallenge](#) (3 units)

Published on: 30 November, 2020 | 13:57:51

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