Bachelor of Engineering (Honours) (Civil Engineering)

Course code: NHEC

Course Requirements

To attain the Bachelor of Engineering (Honours) (Civil Engineering), students will be required to complete:

- 384 credit points of Core studies

Students are required to produce documented evidence of the completion of 12 weeks professional experience.

Accreditation:
This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.

First Class Honours:
To be eligible for completion with First Class Honours, students must achieve:

- A minimum weighted average of 60% over year levels 1 to 3;
- A minimum weighted average of 80% in year level 4;
- An average HD grade for the final year units, NEF4101 Research Project 1 and NEF4201 Research Project 2.

Students are required to enrol in all units for semester 1 and 2, and are not permitted to enrol in more than 48 credit points per semester as a full-time load.

Credit Points

A credit point is used to measure the study load for a unit. A standard unit consists of 12 credit points, with each completed unit's credit points adding up to meet your required total of credit points to complete your course.

Capstone Units

This course includes capstone units, which are third-year level units that are completed at the end of your last year of study. They involve demonstrating the skills and knowledge you have acquired through your course, usually through a large research project or an internship. They have the study load of 2 units, and are worth 24 credit points upon completion.

Further Information

Unit and course information is available from the University course search site at http://vu.edu.au/course-search or go to https://askvu.vu.edu.au or Phone VUHQ on 03 9919 6100

Campus

Footscray Park (FP)

College

College of Sport, Health and Engineering

Study Mode

Full Time or Part Time

Duration

4 years Full Time or Part Time equivalent

Fee Type

For information on course fees, refer to http://vu.edu.au/fees

Application Method

VTAC - https://vtac.edu.au
Direct Application - https://gotovu.custhelp.com/app/landing

Timetable

vu.edu.au/timetables

Course Chair

Vincent Wang

Course Advice

AskCUA - https://askvu.vu.edu.au/app/askcua

Year 1

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEF1103	Engineering and the Community	Core	1B1	12	FP	
NEF1105	Mathematics for Engineering and Science	Core	1B2	12	FP	
NEF1102	Engineering Physics 1	Core	1B3	12	FP	
NEF1104	Problem Solving for Engineers	Core	1B4	12	FP	
NEF1201	Engineering Mathematics 2	Core	2B1	12	FP	NEF1105
NEF1205	Engineering Fundamentals	Core	2B2	12	FP	
NEF1202	Engineering Physics 2	Core	2B3	12	FP	NEF1102
NEF1204	Introduction to Engineering Design	Core	2B4	12	FP	

Students should be enrolling in the above sequence patterns only. Unit offerings have been created by your discipline for your specific course. If the unit quota is full, please contact AskCUA for course advice

Prerequisites

A number of units within the degree have 'prerequisites'. These prerequisites must be met before enrolment in the unit is permitted. Generally these prerequisites require the successful completion of a unit or units taken at an earlier stage in the course. Students should pay particular attention to these prerequisite requirements as failure to meet these can seriously hinder progression through the course.

Core

A unit that must be completed

Year 2

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEC2102	Solid Mechanics	Core	1B1, 2B1	12	FP	NEF1102, NEF1205 and NEF1105
NEF2101	Fluid Mechanics 1	Core	1B2	12	FP	NEF1105
NEC2104	Engineering Surveying	Core	1B3	12	FP	NEF1201
NEC2103	Engineering Materials & Construction	Core	1B4	12	FP	
NEC2204	Highway Engineering	Core	2B1	12	FP	NEF2101
NEC2202	Geomechanics	Core	2B2	12	FP	NEC2102
NEC2201	Introduction to Structural Engineering Design	Core	2B3	12	FP	NEC2102
NEC2203	Hydraulics	Core	2B4	12	FP	NEC2104

Year 3

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEF3101	Project Management	Core	1B1	12	FP	Completion of at least 96 Credit Points
NEC3101	Structural Analysis	Core	1B2	12	FP	NEC2102
NEC3102	Geotechnical Engineering	Core	1B3	12	FP	NEC2202
NEC3103	Hydrology and Water Resources	Core	1B4	12	FP	NEC2203
NEC3201	Hydraulic Engineering	Core	2B1	12	FP	NEC2203
NEC3203	Structural Engineering Design 1	Core	2B2	12	FP	NEC2201
NEC3202	Civil Engineering Design 1	Core	2B3	12	FP	NEC2203, NEC2204, NEC3103 and NEC3201
NEF3202	Research Methods	Core	2B4	12	FP	Completion of 192 Credit Points

Students should be enrolling in the above sequence patterns only. Unit offerings have been created by your discipline for your specific course. If the unit quota is full, please contact AskCUA for course advice

Year 4

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEC4101	Environmental Engineering 1	Core	1B1	12	FP	NEC2203 and NEC3201
NEF4105	Professional Engineering Practice	Core	1B2	12	FP	Completion of 288 credit points
NEC4102	Structural Engineering Design 2	Core	1B3	12	FP	NEC2201 and NEC3203
NEF4101	Research Project 1	Core	1B4, 2B4	12	FP	NEF3202 and Completion of 288 credit points
NEF4206	Advanced Engineering Design	Core	2B1	12	FP	NEF3101, Completion of 288 credit points and NEC4102
NEF4207	Engineering Applications	Core	2B2	12	FP	NEF3101 and NEC3203
NEC4172	Urban Development and Transportation	Core	2B3	12	FP	NEC2204
NEF4201	Research Project 2	Core	2B4	12	FP	NEF4101

Students should be enrolling in the above sequence patterns only. Unit offerings have been created by your discipline for your specific course. If the unit quota is full, please contact AskCUA for course advice

Before enrolling in NEF4101 Research Project 1, students must:

- Have completed NEF3202 Research Methods which includes the selection of a Capstone project.
- Have at least 288 CP.
- Not enrol in NEF3202 and NEF4101 in the same semester.
- Not enrol in NEF4101 and NEF4102 in the same semester.