

# Bachelor of Engineering (Honours) (Electrical and Electronic Engineering)

Course code: NHEE

## Course Requirements

To attain the Bachelor of Engineering (Honours) (Electrical and Electronic Engineering), students will be required to complete 384 credit points consisting of:

- 96 credit points of First Year Core studies;
- 288 credit points of Professional Core Engineering units.

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

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](http://vu.edu.au/timetables)

## Course Chair

Horace King

## 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	
NEF1104	Problem Solving for Engineers	Core	1B3	12	FP	
NEF1102	Engineering Physics 1	Core	1B4	12	FP	
NEF1201	Engineering Mathematics 2	Core	2B1	12	FP	NEF1105
NEF1202	Engineering Physics 2	Core	2B2	12	FP	NEF1102
NEF1204	Introduction to Engineering Design	Core	2B3	12	FP	
NEF1205	Engineering Fundamentals	Core	2B4	12	FP	

## 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
NEE2101	Electrical Circuits	Core	1B1	12	FP	NEF1205
NEE2107	Telecommunications	Core	1B2	12	FP	NEF1201
NEE2110	Engineering Design and Practice 2A	Core	1B3	12	FP	NEF1204
NEE2106	Computer Programming for Electrical Engineers	Core	1B4	12	FP	
NEE2205	Analogue Electronics	Core	2B1	12	FP	NEF1205
NEE2204	Power System Supply Chain Management	Core	2B2	12	FP	
NEE2201	Linear Systems with Matlab Applications	Core	2B3	12	FP	NEF1201 and NEE2101
NEE2210	Engineering Design and Practice 2B	Core	2B4	12	FP	NEE2205

**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 3

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEE3104	Digital Systems	Core	1B1	12	FP	NEF1205
NEE3201	Introduction to Control Systems	Core	1B2	12	FP	NEE2201
NEE3103	Electrical Machines	Core	1B3	12	FP	NEE2101 or NEE2251
NEF3101	Project Management	Core	1B4	12	FP	
NEE3207	Analogue and Digital Transmission	Core	2B1	12	FP	
NEF3202	Research Methods	Core	2B2	12	FP	
NEE3208	Signal Processing	Core	2B3	12	FP	NEE2201
NEE3203	Embedded Systems	Core	2B4	12	FP	NEE2106

## Year 4

Unit Code	Unit Title	Unit Type	Sem	Credit Points	Campus	Pre-Requisites
NEF4105	Professional Engineering Practice	Core	1B1	12	FP	Completion of 288 credit points.
NEF4001	Computational Heat and Fluid Flows	Core	1B2	12	FP	NEF1201 and NEF1202
NEE4110	Electrical Power Systems, Analysis and Operation	Core	1B3	12	FP	
NEF4101	Research Project 1	Core	1B4, 2B4	12	FP	NEF3202 and Completion of 288 credit points
NEF4206	Advanced Engineering Design	Core	2B1, WB1	12	FP	NEF3101, NEE2204 and Completion of 288 credit points.
NEE4211	Mobile Networks and Communications	Core	2B2	12	FP	NEE3207
NEF4205	Sustainable Energy Systems	Core	2B3	12	FP	NEF1202 and Completion of 192 credit points.
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

**Note:** 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 Credit points.
- Not enrol in NEF3202 and NEF4101 in the same semester.
- Not enrol in NEF4101 and NEF4102 in the same semester.