

# COURSE DELIVERY PLAN 2024

## Bachelor of Engineering (Honours) (Architectural Engineering)

**COURSE CODE: NHEA**

<b>CAMPUS</b>	Footscray Park (FP)
<b>COLLEGE</b>	College of Sport, Health and Engineering
<b>STUDY MODE</b>	Full Time or Part Time
<b>DURATION</b>	4 years Full Time or Part Time equivalent
<b>FEE TYPE</b>	For information on course fees, refer to <a href="http://vu.edu.au/fees">http://vu.edu.au/fees</a>
<b>APPLICATION METHOD</b>	VTAC - <a href="https://vtac.edu.au">https://vtac.edu.au</a> Direct Application - <a href="https://gotovu.custhelp.com/app/landing">https://gotovu.custhelp.com/app/landing</a>
<b>TIMETABLE</b>	<a href="http://vu.edu.au/timetables">vu.edu.au/timetables</a>
<b>COURSE REQUIREMENTS</b>	<p>To attain the Bachelor of Engineering (Honours) (Architectural Engineering), students are required to complete 384 credit points consisting of:</p> <ul style="list-style-type: none"><li>• 96 credit points of First Year Core studies, and;</li><li>• 288 credit points of Professional Architectural Engineering studies</li></ul> <p>Students are required to produce documented evidence of the completion of 12 weeks professional experience.</p> <p><b>Accreditation:</b> This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.</p> <p><b>First Class Honours:</b> To be eligible for completion with First Class Honours, students must achieve:</p> <ul style="list-style-type: none"><li>• A minimum weighted average of 60% over year levels 1 to 3;</li><li>• A minimum weighted average of 80% in year level 4;</li><li>• An average HD grade for the final year units, NEF4101 Research Project 1 and NEF4201 Research Project 2.</li></ul>
<b>FURTHER INFORMATION</b>	Unit and course information is available from the University course search site at <a href="http://vu.edu.au/course-search">http://vu.edu.au/course-search</a> or go to <a href="https://askvu.vu.edu.au">https://askvu.vu.edu.au</a> or Phone VUHQ on 03 9919 6100
<b>COURSE CHAIR</b>	Vincent Wang
<b>COURSE ADVICE</b>	<a href="#">AskVU</a>



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**Note:** 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.

**Core/Elective** Core (a unit that must be completed) & Elective (you have some choice in what you select).

**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.

**Date of Publication:** This information is current at the publication date October 24, 2023. It is provided as information only and does not form part of a contract between any person and Victoria University.

## **Summer and Winter Unit Offerings:**

For Summer (January 2024) and Winter (July 2024) please refer to the below link:

<https://www.vu.edu.au/current-students/your-course/timetables-calendars/summer-winter-school-study>

(You will need to wait for this information to be updated if it is still showing 2023)

**Double Block** only students in their final year or semester will be approved to Double Block and for extenuating circumstances. You are required to seek approval via AskCUA.



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# COURSE DELIVERY PLAN 2024

## 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 commencing in **Semester 2, Block 1 (2B1)** should enrol as per the below sequence pattern:

- 2B1 - NEF1103 - Engineering and the Community
- 2B2 - NEF1105 - Mathematics for Engineering and Science
- 2B3 - NEF1102 - Engineering Physics 1
- 2B4 - NEF1204 - Introduction to Engineering Design

In 2025, you enrol:

- 1B1 – NEF1201 - Engineering Mathematics 2
- 1B2 – NEF1202 - Engineering Physics 2
- 1B3 – NEF1205 - Engineering Fundamentals
- 1B4 – NEF1104 - Problem Solving for Engineers

Students commencing in **Semester 2, Block 3 (2B3)** should enrol as per the below sequence pattern:

- NEF1102 - Engineering Physics 1
- NEF1204 - Introduction to Engineering Design

In 2025, you enrol:

- NEF1103 - Engineering and the Community
- NEF1105 - Mathematics for Engineering and Science
- NEF1204 - Introduction to Engineering Design
- NEF1104 - Problem Solving for Engineers

**Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.**



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## YEAR 2

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEC2102	Solid Mechanics	Core	1B1	12	FP	NEF1102, NEF1205, NEM1001
NEF2101	Fluid Mechanics 1	Core	1B2	12	FP	NEM1001
NEA2102	Architectural Design and Theory	Core	1B3	12	FP	
NEC2103	Engineering Materials & Construction	Core	1B4	12	FP	
NEA2201	Building Development and Compliance	Core	WB1 Moved here from 2B4	12	FP	
NEF2201	Building HVAC Systems	Core	2B1	12	FP	
NEC2201	Introduction to Structural Engineering Design	Core	2B3	12	FP	NEC2102
NEF2251	Fundamentals of Electrical and Electronic Engineering	Core	2B4 Moved here from 2B2	12	FP	NEF1205

This means you will have an empty block in 2B2/2024.

## YEAR 3

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEC3101	Structural Analysis	Core	1B1	12	FP	NEC2102
NBD3002	Residential Sustainable Design	Core	1B2	12	FP	
NEE3103	Electrical Machines	Core	1B3	12	FP	NEE2101; or NEF2251
NEF3101	Project Management	Core	1B4	12	FP	
NBD3003	Commercial Sustainable Design	Core	2B1	12	FP	
NEC3203	Structural Engineering Design 1	Core	2B2	12	FP	NEC2201
NEC2203	Hydraulics	Core	2B3	12	FP	NEF2101
NEF3202	Research Methods	Core	2B4	12	FP	Completion of 192 Credit Points.

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.



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## YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF4108	Architectural Lighting and Acoustics	Core	1B1	12	FP	
NEF4105	Professional Engineering Practice	Core	1B2	12	FP	Completion of 288 cp
NEC4102	Structural Engineering Design 2	Core	1B3	12	FP	NEC2201, NEC3203
NEF4101	Research Project 1	Core	1B4	12	FP	NEF3202 Completion of 288 cp
NEF4206	Advanced Engineering Design	Core	2B1	12	FP	NEF3101, Completion of 288 credit points and NEC4102
NEF4207	Engineering Applications	Core	2B2	12	FP	NEF3101, NEC3203
NEF4205	Sustainable Energy Systems	Core	2B3	12	FP	Completion of 192 credit points including unit NEF1202 Engineering Physics 2.
NEF4201	Research Project 2	Core	2B4	12	FP	NEF4101

Students must adhere to the above sequence pattern when enrolling units. Pre-requisite units must also be adhered to when requesting a manual enrolment.

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.



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