

COURSE DELIVERY PLAN 2026

Bachelor of Engineering (Honours) (Mechanical Engineering)

COURSE CODE: NHEM – Semester Two commencement

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 REQUIREMENTS	<p>To attain the Bachelor of Engineering (Honours) (Mechanical Engineering), students will be required to complete 384 credit points, consisting of:</p> <ul style="list-style-type: none">• 336 credit points of Core studies• 48 credit points of Capstone studies• 0 credit points unit NEF3000 Engineering Professional Experience <p>Accreditation: This program is accredited by Engineers Australia and graduates are eligible to apply for graduate membership.</p> <p>First Class Honours: To be eligible for completion with First Class Honours, students must achieve:</p> <ul style="list-style-type: none">• 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 unit NEF4901 Research Project or NEF4101 Research Project 1 and NEF4201 Research Project 2.
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
COURSE CHAIR	Matthew Lamb
COURSE ADVICE	AskVU https://askvu.vu.edu.au/app/askcua

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



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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.

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YEAR 1

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1001	Introduction to Engineering	Core	2B1	12	FP	
NEF1002	Engineering Computational Methods	Core	2B2	12	FP	
NEF1003	Engineering Dynamics	Core	2B3	12	FP	
NEF1004	Principles of Structural Mechanics	Core	2B4	12	FP	NEF1002; or NEF1105

YEAR 2

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEF1005	Applied and Quantitative Methods in Engineering	Core	1B1	12	FP	NEF1002; or NEF1105
NEF1006	Fundamentals of Electrical Systems	Core	1B2	12	FP	NEF1003; or NEF1102
NEF1007	Thermodynamics for Engineers	Core	1B3	12	FP	NEF1003; or NEF1102
NEF1008	Sustainable Engineering Design and Innovation	Core	1B4	12	FP	NEF1001; or NEF1103
NEC2001	Mechanics of Materials	Core	2B1	12	FP	
NEM2002	Mechanical Engineering Design and Optimisation	Core	TBC	12	FP	NEF1008 and NEC2001
NEM2003	Applied Stress Analysis and Computational Methods	Core	TBC	12	FP	NEC2001 and NEM2002
NEM2004	Mechanical Design: Integrated Engineering Practice	Core	TBC	12	FP	NEM2002 and NEM2003

YEAR 3

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEM3001	Aero-Hydrodynamics	Core	TBC	12	FP	NEF1005; and NEF1007
NEM3002	Thermofluids for Sustainability	Core	TBC	12	FP	NEM3001; and NEF1007
NEM3003	Sustainable Energy and Power Conversion	Core	TBC	12	FP	NEF1006; and NEM3002
NEM3004	Mechanical Systems Design 2: Sustainable Energy Solutions	Core	TBC	12	FP	



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NEF3000	Engineering Professional Experience	Core	TBC	0	FP	
NEM2005	Engineering Materials and Sustainability	Core	TBC	12	FP	
NEM2006	Applied Materials and Failure Analysis	Core	TBC	12	FP	NEM2005
NEM2007	Design and Analysis of Machine Elements	Core	TBC	12	FP	NEM2002; and NEM2003
NEM2008	Mechanical Systems Design 1: Applied Innovation	Core	TBC	12	FP	NEM2007

YEAR 4

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEM4001	Advanced Simulation and Optimisation in Manufacturing	Core	TBC	12	FP	
NEM4002	Applied Computational Fluid Dynamics	Core	TBC	12	FP	
NEM4003	Mechanical Engineering Design Studio - Formula SAE	Core	TBC	12	FP	NEM2007
NEM4004	Mechanical Systems Design 4: Smart Manufacturing and Advanced Engineering Solutions	Core	TBC	12	FP	NEM2007; and NEM4001
NEM3005	Dynamics of Rigid Bodies	Core	TBC	12	FP	
NEM3006	Computational Modelling of Mechanical Systems	Core	TBC	12	FP	NEF1005; and NEF1003
NEM3007	Vibrational Systems Analysis	Core	TBC	12	FP	NEM3006; and NEM3005
NEM3008	Mechanical Systems Design 3: Modelling and Control	Core	TBC	12	FP	NEM3006

YEAR 5

UNIT CODE	UNIT TITLE	UNIT TYPE	SEM	CREDIT POINTS	CAMPUS	PRE-REQUISITES
NEC4901	Research Project	Core	TBC	48	FP	



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