DIPLOMA IN ENGINEERING

TRANSITION ARRANGEMENTS FOR STUDENTS WHO COMMENCED PRIOR TO 2024

The Diploma in Engineering has a revised program structure for 2024 onwards. If you commenced the program prior to 2024, the courses you need to complete may have changed. Please refer to the information below and contact <u>PALS-SLO@newcastle.edu.au</u> if you have any questions.

The following courses have been discontinued and were offered for the last time in 2023

FNMT1002 Foundational Studies in Mathematics

FNMT1110 Mathematics for Engineering, Science and Technology 1

FNPS1001 Engineering Physics 1

FNPS1002 Engineering Physics 2

If you have already completed all of the above courses, these will continue to count towards your program and you will not need to study the replacement courses listed below. If have completed either none or only some of these courses, you will need to complete replacement course/s as in Table 1 below.

Table 1

Courses not completed	Replacement courses
If you have not completed both:	Then complete both:
FNMT1002 Foundational Studies in Mathematics AND	FNMT1003 Foundational Studies in Mathematics 1 AND
FNMT1110 Mathematics for Engineering, Science and Technology 1	FNMT1004 Foundational Studies in Mathematics 2
<i>If you have completed FNMT1002 Foundational Studies in Mathematics but have not completed:</i>	Then complete:
	One course from the list on Table 2, chosen based on
FNMT1110 Mathematics for Engineering, Science and	which Bachelor of Engineering program you plan to
Technology 1	enrol in*
If you have not completed both:	Then complete both:
FNPS1001 Engineering Physics 1	FNPS1003 Engineering Physics
AND	AND
FNPS1002 Engineering Physics 2	One course from the list on Table 2, chosen based on
	which Bachelor of Engineering program you plan to
	enrol in*
If you have completed FNPS1001 Engineering Physics 1	Then complete:
but have not completed:	
	One course from the list on Table 2, chosen based on
FNPS1002 Engineering Physics 2	which Bachelor of Engineering program you plan to enrol in*

* Some of the programs in Table 2 list FNEG1004 and/or FNEG1005. You cannot count one of these courses as both your 10 unit directed course and a replacement course. For example, if you plan to go onto the Bachelor of Aerospace Engineering (Honours), you can count FNEG1004 as your directed course and FNEG1005 as your replacement course for FNMT1110. But you can't count FNEG1004 as both your directed course and replacement course because then you would only be completing 70 units in total.

Information is correct as at 25 October 2023 and subject to change. Program Code: 40128 CRICOS Provider: 00109J

Table 2

You cannot double count FNEG1004 or FNEG1005 as both your directed course and a replacement course. For example, if you need to complete a replacement course and you are planning on enrolling in the Bachelor of Civil Engineering (Honours), you can count FNEG1004 as your replacement course but you will need to complete FNEG1005 as your directed course.

If you have successfully completed both FNPS1001 and FNPS1002, you cannot enrol in PHYS1205 or PHYS1210.

Bachelor of	Courses	
Aerospace Systems Engineering (Honours)	ELEC1710	Digital and Computer Electronics 1
	FNEG1004	Fundamentals of Engineering Mechanics
	FNEG1005	Introduction to Electrical Engineering
	MECH1750	Engineering Materials 1
	CHEE1000	Process Engineering Principles
Chemical Engineering (Honours)	CHEM1010	Introductory Chemistry I
	PHYS1210	Advanced Physics I
Civil Engineering (Honours)	CIVL1200	Earth Systems
	FNEG1004	Fundamentals of Engineering Mechanics
	PHYS1205	Fundamentals of Engineering Physics
	SURV1200	Introduction to Surveying
	ELEC1710	Digital and Computer Electronics 1
Computer Systems Engineering	FNEG1005	Introduction to Electrical Engineering
(Honours)	SENG1110	Object Oriented Programming
	ELEC1710	Digital and Computer Electronics 1
Electrical and Electronic Engineering	FNEG1005	Introduction to Electrical Engineering
(Honours)	PHYS1210	Advanced Physics I
	CHEM1010	Introductory Chemistry I
Environmental Engineering (Honours)	CIVL1200	Earth Systems
	SURV1200	Introduction to Surveying
	ENEG1004	Eundamentals of Engineering Mechanics
Mechanical Engineering (Honours)	FNEG1005	Introduction to Electrical Engineering
	MECH1750	Engineering Materials 1
	ELEC1710	Digital and Computer Electronics 1
Mechatronics Engineering (Honours)	FNEG1004	Fundamentals of Engineering Mechanics
	ENEG1005	Introduction to Electrical Engineering
	MECH1750	Engineering Materials 1
	Medical Devices	s Maior
	ELEC1710	Digital and Computer Electronics 1
	FNEG1005	Introduction to Electrical Engineering
	HUBS1420	Professional and Communication Skills in Biomedicine
	PHYS1210	Advanced Physics I
	Medical Biomed	chanics Maior
Medical Engineering (Honours)	~ Only complete	e a maximum of one of these courses
	FNEG1004 ~	Fundamentals of Engineering Mechanics
	FNEG1005 ~	Introduction to Electrical Engineering
	FNEG1110	Introduction to Mechanical Engineering Design
	HUBS1420	Professional and Communication Skills in Biomedicine
	MECH1750	Engineering Materials 1
	PHYS1210 ~	Advanced Physics I
	CHEE1000	Process Engineering Principles
Renewable Energy Engineering	CHEM1010	Introductory Chemistry I
(Honours)	FNEG1005	Introduction to Electrical Engineering
(PHYS1210	Advanced Physics I
Software Engineering (Honours)	COMP1010	Computing Fundamentals
	SENG1050	Web Technologies
	SENG1110	Object Oriented Programming
	SENG1120	Data Structures
Surveying (Honours)	FNEG1004	Fundamentals of Engineering Mechanics
	PHYS1205	Fundamentals of Engineering Physics
	SENG1120	Data Structures
	SURV1200	Introduction to Surveying

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Table 3

2023 Program Structure	2024 Program Structure
Core Courses (70 units)	Core Courses (40 units)
Complete the following courses	Complete the following courses
ENGG1500 Introduction to Professional Engineering	ENGG1500 Introduction to Professional Engineering
FNEG1003 Engineering Computations and Procedural	FNMT1003 Foundational Studies in Mathematics 1
Programming	
FNEG1110 Introduction to Mechanical Engineering	FNMT1004 Foundational Studies in Mathematics 2
Design	
FNMT1002 Foundational Studies in Mathematics	FNPS1003 Engineering Physics
ENDATA10 Mathematics for Engineering Caises and	-
Technology 1	
ENDS1001 Engineering Devoice 1	
ENDS1001 Engineering Physics 1	-
Directed Course List (10 units)	Directed Course List (40 units)
Complete one of the following courses	Complete four of the following courses
ENEG1004 Fundamentals of Engineering Mechanics	CHEF1000 Process Engineering Principles
ENEG1005 Introduction to Electrical Engineering	CHEM1010 Introductory Chemistry I
	CIVI 1200 Earth Systems
	COMP1010 Computing Fundamentals
	ELECT710 Digital and Computer Electronics 1
	ENEG1003 Engineering Computations and Procedural
	Programming
	FNEG1004 Fundamentals of Engineering Mechanics
	FNEG1005 Introduction to Electrical Engineering
	FNEG1110 Introduction to Mechanical Engineering
	Design
	HUBS1420 Professional and Communication Skills in
	Biomedicine
	MECH1750 Engineering Materials 1
	PHYS1205 Fundamentals of Engineering Physics
	PHYS1210 Advanced Physics I
	SENG1050 Web Technologies
	SENG1110 Object Oriented Programming
	SENG1120 Data Structures
	SURV1200 Introduction to Surveying

FREQUENTLY ASKED QUESTIONS

I have completed FNMT1002, FNMT1110, FNPS1001, & FNPS1002. Do I need to complete any replacement courses?

No, you do not need to complete any replacement courses. FNMT1002, FNMT1110, FNPS1001, and FNPS1002 will still count towards your program and you should follow the 2023 program structure in Table 3.

I commenced the program in 2024, does any of this apply to me?

No, this information is only for students who commenced the program in 2023 or earlier.

I haven't completed FNMT1002, what course do I need to complete instead?

You will need to complete FNMT1003 Foundational Studies in Mathematics 1 and FNMT1004 Foundational Studies in Mathematics 2 instead of FNMT1002 and FNMT1110.

I haven't completed FNMT1110, what course do I need to complete instead?

If you have already completed FNMT1002, you will need to complete one course from the list on Table 2, chosen based on which Bachelor of Engineering program you plan to enrol in instead of FNMT1110.

If you haven't completed either FNMT1002 or FNMT1110, you will need to complete FNMT1003 Foundational Studies in Mathematics 1 and FNMT1004 Foundational Studies in Mathematics 2 instead of FNMT1002 and FNMT1110.

I haven't completed FNPS1001, what course do I need to complete instead?

You will need to complete FNPS1003 Engineering Physics and one course from the list on Table 2, chosen based on which Bachelor of Engineering program you plan to enrol in instead of FNPS1001 and FNPS1002.

I haven't completed FNPS1002, what course do I need to complete instead?

If you have already completed FNPS1002, you will need to complete one course from the list on Table 2, chosen based on which Bachelor of Engineering program you plan to enrol in instead of FNPS1002.

If you haven't completed either FNPS1001 or FNPS1002, you will need to complete FNPS1003 Engineering Physics and one course from the list on Table 2, chosen based on which Bachelor of Engineering program you plan to enrol in instead of FNPS1001 and FNPS1002.

Can I choose to follow the 2024 program structure even though I commenced prior to 2024?

This will depend on how many/which courses you have completed. Please contact <u>ProgramAdvice@newcastle.edu.au</u> for advice before you enrol.

I'm not sure which courses I should complete, who should I contact for advice?

If you have any questions about which courses to complete, please contact <u>ProgramAdvice@newcastle.edu.au.au</u>.