

BACHELOR OF ENGINEERING (HONOURS) (MECHANICAL) (PRE-2017)

Program Code: 12300

Singapore Campus



Teach-out Arrangements for pre-2017 program – replacement courses for students remaining in their existing program

Teach-out Arrangements for pre-2017 program

Last updated: December 2020

The following description outlines the approved teach-out arrangements for students who commenced Engineering prior to 2017. Please note that students who commenced prior to 2017 will not transition to the new program. To facilitate completion from the pre-2017 program, the following permitted substitutions tables will guide your study plans. If you need further advice, please contact your Academic Program Advisor on programadvice@newcastle.edu.au.

Pre-2017 Course Code and Title (Not yet completed)	New Course Code and Title (Course to be completed from 2021 onwards as offered)
'Completed' means successfully passed a course or received approved credit for a course	
CORE COURSES	
GENG1803 Introduction to Engineering Practice	ENGG1500 Introduction to Professional Engineering
GENG1003 Introduction to Procedural Programming	ENGG1003 Introduction to Procedural Programming
ELEC1300 Electrical Engineering 1	ELEC1310 Introduction to Electrical Engineering
GENG1001 Introduction to Engineering Mechanics	CIVL1100 Fundamentals of Engineering Mechanics
GENG1000 Computer Aided Engineering	MECH1110 Introduction to Mechanical Engineering Design (<i>previously Mechanical Drawing/CAD & Workshop Practice</i>)
MECH2420 Engineering Mechanics	MECH2430 Mechanics of Solids 1
MECH2250 Materials Science Engineering 1 (<i>last offering 2021</i>)	MECH1750 Engineering Materials 1 (<i>first offering 2022</i>)
MECH2350 Dynamics 2	MECH2360 Dynamics of Machines
MCHA2000 Mechatronics Systems	ENGG2440 Modelling and Control
MECH2700 Thermofluids	See transition table*
MECH3700 Transport Phenomena	
MECH3750 Applied Engineering Thermodynamics	
MECH3440 Mechanics of Solids	Select a Mechanical Engineering Directed Course
MECH4400 Computational Mechanics	MECH4410 Mechanics of Solids and FEA

ELEC4400 Automatic Control	2018 -2019: ENGG3440 Linear Control and Estimation (Replaced ELEC4400)	From 2021 onwards: ELEC3410 Control Systems Design <i>*Please note if you have completed ENGG3440 you cannot take this course.</i>
GENG3830 Engineering Project Management	ENGG3500 Managing Engineering Projects	

Pre-2017 Course Code and Title (Not yet completed)	New Course Code and Title (Course to be completed from 2021 onwards as offered)
DIRECTED Philosophy Directed List	
PHIL3910 Ethics, Technology and Engineering	ENGG4500 Engineering Complexity
Mechanical Engineering Directed Course List Choose 20 units from the following Bachelor of Engineering directed courses. Note that there is an enrolment restriction for MECH4580. Students who wish to take this course must seek guidance from the Course Coordinator before enrolling. For students who have not yet completed MECH3440 Mechanics of Solids, please complete an additional Directed course from the list below.	
MECH3780 Fluid Mechanics 2 and CFD	MECH3780 Fluid Mechanics 2 and CFD
MECH4580 Computer Aided Engineering and Manufacturing	Last course offering 2019
MECH4830 Engineering Economic Analysis	Last course offering 2020

*MECH2710, MECH3695 and MECH3720

MECH2710, MECH3695 and MECH3720 are newly approved courses in the new and revised Bachelor of Engineering (Honours) programs. To comply with the pre-2017 program structure, students who have not yet completed MECH2700, MECH3700 and MECH3750 should refer to the following table below when enrolling in their courses.

Has not yet completed	But passed	Must complete
MECH2700 Thermofluids	MECH3750 Applied Engineering Thermodynamics & MECH3700 Transport Phenomena	MECH3695 Heat Transfer
MECH2700 Thermofluids & MECH3750 Applied Engineering Thermodynamics	MECH3700 Transport Phenomena	MECH3720 Thermodynamics & MECH3695 Heat Transfer

MECH2700 Thermofluids & MECH3700 Transport Phenomena	MECH3750 Applied Engineering Thermodynamics	MECH2710 Fluid Mechanics 1 (From 2022 onwards: ENGG2300 Engineering Fluid Mechanics) & MECH3695 Heat Transfer
MECH2700 Thermofluids, MECH3750 Applied Engineering Thermodynamics & MECH3700 Transport Phenomena	-	From 2022 onwards: ENGG2300 Engineering Fluid Mechanics <i>(previously MECH2710 Fluid Mechanics 1),</i> MECH3720 Thermodynamics & MECH3695 Heat Transfer
MECH3700 Transport Phenomena	MECH2700 Thermofluids & MECH3750 Applied Engineering Thermodynamics	MECH3695 Heat Transfer
MECH3750 Applied Engineering Thermodynamic	MECH2700 Thermofluids & MECH3700 Transport Phenomena	MECH3720 Thermodynamics