

Bachelor of Engineering (Honours) (Electrical)
Program Code: 12295
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. If you need further advice, please contact your 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)	
'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	
ELEC1700 Computer Engineering 1*	ELEC1710 Digital and Computer Electronics 1*	
GENG1003 Introduction to Procedural Programming	ENGG1003 Introduction to Procedural Programming	
ELEC1300 Electrical Engineering 1	ELEC1310 Introduction to Electrical Engineering	
ELEC2700 Computer Engineering II	In 2018: ELEC3730 Digital and Computer Electronics 2 replaced ELEC2700.	<u>From 2019/2020/2021 onwards:</u> ELEC2720 Introduction to Embedded Computing **Please note: If you have completed ELEC2700 you cannot complete this course.
ELEC2400 Signals & Systems	ELEC2430 Circuits & Signals	
MATH2420 Engineering Mathematics	STAT2110 Engineering Statistics	
ELEC4400 Automatic Control	ENGG2440 Modelling and Control	
GENG3830 Engineering Project Management	ENGG3500 Managing Engineering Projects	
PHIL3910 Ethics, Technology and Engineering	ENGG4500 Engineering Complexity	
PHYS2170 Quantum Mechanics and Semiconductor Physics	Last course offering 2020	
ELEC3850 Electrical Engineering Design and Practice	Select 10 units of directed course Electrical and Electronic Directed list.	

Electrical Directed Courses – 60 units

For students who have not completed core course ELEC3850 should select an additional 10 units of directed courses from either list A or list B.

Directed Courses A – 30 units

ELEC3400 Signal Processing	ELEC3400 Signal Processing
ELEC3540 Analog and Digital Communication	ELEC3540 Analog and Digital Communication
ELEC3720 Programmable Logic Design	ELEC4720 Programmable Logic Design
ELEC3730 Digital and Computer Electronics 2	Last course offering 2019

Directed Courses B – 20 units. Choose an additional 10 units from Directed A or Directed B courses

ELEC4100 Electrical Systems	ELEC4100 Electrical Systems
ELEC4210 Electronics Design	ELEC4210 Electronics Design
ENGG3440 Linear Control and Estimation	ELEC3410 Control Systems Design

***ELEC1710 Digital and Computer Electronics 1**

To comply with the pre-2017 program structure, students who have not yet completed ELEC1700 and/or ELEC2700 should refer to the table below when enrolling in their courses.

****ELEC3730 Digital and Computer Electronics 2**

ELEC2720 Introduction to Embedded Computing is a new course. In the pre-2017 Bachelor of Engineering (Honours) (Electrical) [12295] program students were previously required to complete ELEC1700 and ELEC2700. In 2018 an arrangement was approved to allow students to take ELEC3730 in place of ELEC2700. From 2019 onwards if a student has not yet completed ELEC1700 and ELEC2700 they will be required to complete ELEC1710 and ELEC2720.

If a student has already completed either ELEC2700 or ELEC3730, then they do not need to complete the new course ELEC2720.

Has not yet completed	But passed	Must complete
ELEC1700 Computer Engineering 1 & ELEC2700 Computer Engineering II	-	ELEC1710 Digital and Computer Electronics 1 ELEC2720 Introduction to Embedded Computing
ELEC2700 Computer Engineering II	ELEC1700 Computer Engineering 1	ELEC2720 Introduction to Embedded Computing
ELEC1700 Computer Engineering 1	ELEC2700 Computer Engineering II	ELEC1710 Digital and Computer Electronics 1