

**Bachelor of Computer Systems Engineering
(Honours)/Bachelor of Computer Science**
Program Code: 40088
CRICOS Code: 088927C



Transition Arrangements

Last Updated October 2019

The following description outlines the approved transition arrangements for students who commenced in the Bachelor of Computer Systems Engineering (Honours) in or prior to 2019. If you need further advice then please contact your Program Advisor on programadvice@newcastle.edu.au.

Core Courses

Course Code and Title (Not yet completed)	New Course Code and Title (Course to be completed from 2020 onwards as offered)
	ELEC2720 Introduction to Embedded Computing
SENG3400 Network and Distributed Computing	Select 10 units of Computer Systems directed courses.

Computer Systems Directed List

Select 10 units of directed courses from the following list. Please note if you have completed SENG3400 then you do not need to complete 10 units of directed courses.

ELEC4700 Advanced Computer Systems	ELEC4740 Internet of Things
PHYS3360 Advanced Electromagnetism (last enrolment 2020)	PHYS3112 Photonics (available 2021)
COMP3330 Machine Intelligence	COMP3330 Machine Intelligence
ELEC3400 Signal Processing	ELEC3400 Signal Processing
ELEC4210 Electronics Design	ELEC4210 Electronics Design

Computer Systems and Robotics Major

Compulsory courses – 30 units	Compulsory courses – 20 units
SENG2200 Programming Languages and Paradigms	Removed from Compulsory list
COMP3290 Compiler Design	COMP3290 Compiler Design
COMP3330 Machine Intelligence	COMP3330 Machine Intelligence
Directed Courses – 10 units	

	SENG2200 Programming Languages and Paradigms
COMP3260 Data Security	COMP3260 Data Security
COMP3320 Computer Graphics	COMP3320 Computer Graphics
COMP3350 Advanced Database	COMP3350 Advanced Database
ELEC3400 Signal Processing	ELEC3400 Signal Processing
SENG3320 Software Verification and Validation	SENG3320 Software Verification and Validation
ELEC4210 Electronics Design	ELEC4210 Electronics Design
ELEC4550 Wireless Communication	ELEC4550 Wireless Communication

Majors in Teach-out

From 2019 the Software Development and Data Science majors will be unavailable to commencing students. Students who commenced in the program prior to 2019 will still be able to continue in these majors, however, they will no longer be listed on the program handbook.

It is recommended that students who are continuing in the Software Development or Data Science majors follow the teach-out arrangements as listed below. If you require further enrolment advice please contact your Program Advisor (programadvice@newcastle.edu.au).

Software Development major	
Compulsory courses – 30 units	Compulsory courses – 20 units
COMP3350 Advanced Database	COMP3350 Advanced Database
SENG3320 Software Verification and Validation	SENG3320 Software Verification and Validation
INFT3100 Project Management	Removed from Compulsory list
Directed Courses – Select 10 units	
COMP3260 Data Security	COMP3260 Data Security
COMP3320 Computer Graphics	COMP3320 Computer Graphics
COMP3350 Advanced Database	COMP3350 Advanced Database
INFT2150 Business Analysis	INFT2150 Business Analysis
INFT3950 Games Design	INFT3950 Games Design
INFT3960 Games Production	INFT3960 Games Production

Data Science major	
Compulsory courses – 30 units	Compulsory courses – 40 units
STAT1070 Statistics for the Sciences	STAT1070 Statistics for the Sciences
COMP3330 Machine Intelligence	COMP3330 Machine Intelligence

COMP3350 Advanced Database	COMP3350 Advanced Database
	COMP3340 Data Mining*
Directed Courses – 10 units	Directed Courses – 0 units
MATH2320 Linear Algebra	No longer required for this major
COMP3260 Data Security	
COMP3340 Data Mining	

***Please note the addition of COMP3340 Data Mining has increased the units required to complete this major from 400 units to 410 units.**