

Bachelor of Computer Systems Engineering (Honours)/Bachelor of Mathematics

Program Code: 40087

CRICOS Code: 088928B



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)/Bachelor of Mathematics program 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)

SENG3400 Network and Distributed Computing

Select 10 units of 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

DIRECTED COURSES – 50 units

Choose 10 units from the following directed courses

MATH2330 Analysis	MATH2330 Analysis
STAT2000 Applied Statistics and Research Methods	STAT2000 Applied Statistics and Research Methods
MATH2730 Operations Research 1	Select a different directed course

Choose 40 units from the following directed courses

MATH3120 Algebra	MATH3120 Algebra
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MATH3170 Number Theory	MATH3170 Number Theory
MATH3180 Topology	MATH3180 Topology
MATH3205 Fourier Analysis	MATH3205 Fourier Analysis
MATH3210 Directed Studies in Mathematics	MATH3210 Directed Studies in Mathematics
MATH3210 Complex Analysis	MATH3210 Complex Analysis
MATH3400 Research Topics in Mathematics	MATH3400 Research Topics in Mathematics
MATH3510 Combinatorics and Graph Theory	MATH3510 Combinatorics and Graph Theory
MATH3700 Advanced Differential Equations	MATH3700 Advanced Differential Equations
MATH3820 Numerical Methods	MATH3820 Numerical Methods
MATH3830 Operations Research 2	MATH3800 Optimisation
MATH3840 Optimisation in Business and Industry	MATH3840 Optimisation in Business and Industry
MATH3850 Industrial Project	MATH3850 Industrial Project
STAT3010 Statistical Inference	STAT3010 Statistical Inference
STAT3030 Generalised Linear Models	STAT3030 Generalised Linear Models
STAT3040 Time Series Analysis	STAT3040 Time Series Analysis
STAT3100 Total Quality Management	STAT3100 Total Quality Management
STAT3120 Applied Bayesian Methods	STAT3120 Applied Bayesian Methods
STAT3170 Surveys and Experiments	STAT3170 Surveys and Experiments
STAT3990 Topics in Statistics	STAT3990 Topics in Statistics

In 2018, COMP2240 Operating Systems was removed from the program, and ELEC2720 was added, please refer to the table below to see what courses you need to complete in relation to this change.

ELEC3730 Digital and Computer Electronics 2	COMP2240 Operating Systems	Must complete from 2020 onwards
Not yet completed	Not yet completed	ELEC2720 Introduction to Embedded Computing and ELEC3730 Digital and Computer Electronics 2
Not yet completed	Completed	ELEC2720 Introduction to Embedded Computing
Completed	Not yet completed	COMP2240 Operating Systems
Completed	Completed	-