

PROGRAM PLAN

BACHELOR OF COMPUTER SCIENCE



Data Science Major

PROGRAM OPTION:
Commencing in Semester 1

START DATE:
2020 - 2021

LOCATION:
Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Academic Program Advisor to ensure you remain on track.

 [PROGRAM HANDBOOK](#)
 [COURSE HANDBOOK](#)

NAME:
STUDENT NO.:

COURSE STATUS KEY

C = Completed
En = Enrolled
NS = Not Started

YEAR 1	SEMESTER 1	COMP1010 Computing Fundamentals CORE	MATH1110 Mathematics for Engineering, Science and Technology 1 CORE <i>Replaces option of MATH1110 OR MATH1210</i>	SENG1110 Object Oriented Programming CORE	STAT1070 Statistics for the Sciences COMPULSORY	SEMESTER 2	COMP1140 Database and Information Management CORE	MATH1510 Discrete Mathematics CORE	SENG1050 Web Technologies CORE	SENG1120 Data Structures CORE
	SEMESTER 2	COMP2270 Theory of Computation CORE	DIRECTED DIRECTED	MATH1120 Mathematics for Engineering, Science and Technology 2 COMPULSORY <i>Replaces option of MATH1120 OR MATH1220</i>	SENG2130 Systems Analysis and Design CORE	SEMESTER 2	COMP2230 Algorithms CORE	COMP2240 Operating Systems CORE	SENG2250 System and Network Security CORE	SENG2260 Human-Computer Interaction CORE
YEAR 2	SEMESTER 1	COMP3330 Machine Intelligence COMPULSORY	COMP3350 Advanced Database COMPULSORY	COMP3851A Computer Science and Information Technology Work Integrated Learning Part A CORE	INFT3800 Professional Practice in Information Technology CORE	SEMESTER 2	COMP3340 Data Mining COMPULSORY	COMP3851B Computer Science and Information Technology Work Integrated Learning Part B CORE	ELEC3500 Telecommunication Networks CORE	ELECTIVE ELECTIVE
	SEMESTER 2									

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To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core and Compulsory courses – 220 units.
- Directed courses – 10 units.
- Elective courses – 10 units.
- A maximum of 100 units at first year/1000 level is permitted for this program. You may take only one of your directed/elective courses at this level.
- The duration of this program is 3 years full-time (40 units per semester) or part-time equivalent.
- The maximum time to complete this program is 8 years.
- **Prior to 2021**, students could choose to complete either MATH1110 and MATH1120, **OR** MATH1210 and MATH1220. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#).
- **After 2021**, the option to do MATH1210 and MATH1220 has been removed from the program. **From 2021 onwards:** 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120.
- Transition information – students who commenced study in this program prior to 2020 may be affected by transition arrangements. Please refer to the [Program Handbook](#) for further information.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#). Please refer to the [Program Handbook](#) for specific information on program structure. If you are intending varying from this program plan please seek advice from your [Academic Program Advisor](#).

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DIRECTED COURSES

DATA SCIENCE MAJOR

Complete 10 units from:

COMP3260: Data Security

ENGG1003: Introduction to Procedural Programming

MATH2340: Linearity and continuity (from 2021 - replaces *MATH2320 Linear Algebra*)

SENG2050: Web Engineering