PROGRAM PLAN
BACHELOR OF COMPUTER SCIENCE

Software Development 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.:

YEAR 1

SEMESTER 1

COMP1010	ELECTIVE	MATH1110	SENG1110
Computing Fundamentals		Mathematics for Engineering, Science and Technology 1	Object Oriented Programming
CORE	ELECTIVE	CORE *Replaces* option of MATH1110 **OR** MATH1210	CORE

SEMESTER 2

COMP1140	MATH1510	SENG1050	SENG1120
Database and Information Management	Discrete Mathematics	Web Technologies	Data Structures
CORE	CORE	CORE	CORE

YEAR 2

SEMESTER 1

COMP2270	DIRECTED	SENG2130	SENG2200
Theory of Computation		Systems Analysis and Design	Programming Languages and Paradigms
CORE	DIRECTED	CORE	COMPULSORY

SEMESTER 2

COMP2230	COMP2240	SENG2250	SENG2260
Algorithms	Operating Systems	System and Network Security	Human-Computer Interaction
CORE	CORE	CORE	CORE

YEAR 3

SEMESTER 1

COMP3851A	INFT3100	INFT3800	SENG3320
Computer Science and Information Technology Work Integrated Learning Part A	Project Management	Professional Practice in Information Technology	Software Verification and Validation
CORE	COMPULSORY	CORE	COMPULSORY

SEMESTER 2

COMP3851B	DIRECTED	DIRECTED	ELEC3500
Computer Science and Information Technology Work Integrated Learning Part B			Telecommunication Networks
CORE	DIRECTED	DIRECTED	CORE

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

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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 – 200 units.
- Directed courses – 30 units.
- Elective courses – 10 units.
- 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 *OR* MATH1210. 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 has been removed from the program. *From 2021 onwards*: if you have not yet completed MATH1210 you must complete MATH1110.
- 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**.

DIRECTED COURSES

SOFTWARE DEVELOPMENT MAJOR

Complete 30 units from:

COMP3260: Data Security
COMP3320: Computer Graphics
COMP3350: Advanced Database
INFT2150: Business Analysis
INFT3950: Games Design
INFT3960: Games Production
SENG2050: Web Engineering