Computers are now ubiquitous, and critical to the functioning of all enterprises in modern industrial societies, from commerce to health and education. They now also play an important social role, opening new avenues for people to connect and to engage in public discourse. The demand for computing professionals capable of managing existing computing infrastructure or, more importantly, creating the next generation of computing applications, will continue to grow into the future.

This stream provides a solid grounding in the fundamentals of the computing discipline (programs, algorithms, design, systems, software engineering) and then allows students to choose from a wide range of electives in later years. The flexibility of the stream allows students to take a broad range of courses, or to focus on one particular area of computing.

This is the default plan for students in the 3778 BSc in Computer Science program or in dual degrees involving Computer Science.
Faculty
Faculty of Engineering

School
School of Computer Science and Engineering

Study Level
Undergraduate

Minimum Units of Credit
96

Specialisation Type
Major
Available in Program(s)

Program(s) in which this major is available

Bachelor of Science - BSc
3778 Computer Science
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 144
Typical Duration: 3 Years
Specialisation Structure

Students must complete 96 UOC.

Core Courses

Students must take 66 UOC of the following courses.

COMP1511  |  6 UOC
Programming Fundamentals

COMP1521  |  6 UOC
Computer Systems Fundamentals

COMP1531  |  6 UOC
Software Engineering Fundamentals

COMP2511  |  6 UOC
Object-Oriented Design & Programming

COMP2521  |  6 UOC
Data Structures and Algorithms

COMP3900  |  6 UOC
Computer Science Project

COMP4920  |  6 UOC
Management and Ethics

MATH1081  |  6 UOC
Discrete Mathematics

One of the following:

MATH1131  |  6 UOC
Mathematics 1A
MATH1141 | 6 UOC
Higher Mathematics 1A

One of the following:
MATH1231 | 6 UOC
Mathematics 1B

MATH1241 | 6 UOC
Higher Mathematics 1B

One of the following:
COMP3121 | 6 UOC
Algorithms and Programming Techniques

COMP3821 | 6 UOC
Extended Algorithms and Programming Techniques

Computing Electives

Students must take at least 30 UOC of the following courses.

any level 3 Computer Science course

any level 4 Computer Science course

any level 6 Computer Science course

any level 9 Computer Science course

Enrolment Disclaimer

You are responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements. Do not assume that because you have enrolled in a course that the course will be credited towards your program.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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University will try to avoid or minimise any inconvenience, changes may also be
made to programs, courses and staff after enrolment. The University may also set
limits on the number of students in a course.

Authorised by Deputy Vice-Chancellor (Academic)
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ABN: 57 195 873 179