

Bachelor of Computer Science

DATA SCIENCE MAJOR



Commencing in Semester 2 2017 to 2019



Studying at 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 prior advice from your [Program Advisor](#) to ensure you remain on track.

Semester 1

Year 1				
Year 2	<u>COMP1010</u> Computing Fundamentals	<u>SENG1120</u> Data Structures	<u>STAT1070</u> Statistics for the Sciences	<u>MATH1120</u> Mathematics for Engineering, Science & Technology 2
Year 3	<u>SENG2130</u> System Analysis and Design	<u>DIRECTED</u>	<u>ELECTIVE</u>	<u>ELECTIVE</u> 2000 or 3000 level
Year 4	<u>COMP2270</u> Theory of Computation	<u>COMP3851B</u> Computer Science Work Integrated Learning Project Part B	<u>COMP3350</u> Advanced Database	<u>COMP3330</u> Machine Intelligence

Semester 2

<u>SENG1050</u> Web Technologies	<u>SENG1110</u> Object Orientated Programming	<u>MATH1510</u> Discrete Mathematics	<u>MATH1110 *</u> Mathematics for Engineering, Science & Technology 1
<u>COMP1140</u> Database and Information Management	<u>COMP2230</u> Algorithms	<u>COMP2240</u> Operating Systems	<u>SENG2250</u> System and Network Security
<u>SENG2260</u> Human-Computer Interaction	<u>ELEC3500</u> Telecommunications Networks	<u>COMP3851A</u> Computer Science Work Integrated Learning Project Part A	<u>COMP3340</u> Data Mining

Program Plan Key:

= Core
 = Major
 = Elective

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 courses - 160 units.
 - * MATH courses – Enrolment in maths courses is based on assumed knowledge. To find out which MATH courses you should enrol in please see the [Enrolling in Maths information](#). More information in your [Program Handbook](#).
- ✓ Compulsory courses - 50 units.
- ✓ Directed courses - 10 units.
- ✓ Elective courses - 20 units. Visit the [Course Handbook](#) to see a list of available Electives.
- ✓ No more than 100 units can be taken at 1000 level for this program.
- ✓ Students who perform well during the program with a credit average (GPA of 5.0) or greater, may apply for a further year of full time (or equivalent part time) study to obtain an Honours degree.
- ✓ The duration of this program is 3 years full time study (40 units per semester) or part time equivalent.
- ✓ The maximum time to complete this program is 8 years.



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#).

The [Program Handbook](#) has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your [Program Advisor](#).

See the
next page
for a list of
Directed
courses

Bachelor of Computer Science – Data Science Major

Directed Courses

Subject to change - Please refer to the program handbook for up to date information.

Choose **10 units** from the following directed courses.

[ENGG1003](#) Introduction to Procedural Programming (*note: not to be counted with MATH1002*)

[MATH2320](#) Linear Algebra

[SENG2050](#) Web Engineering

[COMP3260](#) Data Security

Students who are required to undertake MATH1002 **must** choose courses from this list at **2000 level or higher**.

Helpful Hints & Tips

ENROLMENT HELP



Need help? >>
Ask UON >>



How do I use the Web Timetable? >>

RULES

It is important to follow this Program Plan.

You cannot repeat a course you've passed to try and get a better grade.

You cannot enrol in any extra courses not required by your program >>

INFO FOR NEW STUDENTS



First year undergraduate students usually only enrol in 1000 level courses >>

New Postgraduate students should only enrol in 6000 level courses >>



Find out all you need to know about getting started at uni >>

UNDERSTANDING COURSES & PROGRAMS



Not sure what courses to study? >>



Understanding program and course jargon >>



Understanding UON Jargon >>

PRIOR STUDY



Check you have met the assumed knowledge and requisites for courses before enrolling >>



Have you studied elsewhere or transferred programs? Don't forget to apply for credit >>

CONSIDERING A BREAK?



Need to take a break? This is called a 'leave of absence'. Check if you are eligible >>




Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies >>





UON offers a range of support services to assist with your health and wellbeing >>


MORE QUESTIONS?


We are here to answer questions about your program. Talk to us your way!


 Ask UON

 1300 ASK UON

 Visit Student Central

 Message us on Facebook

 or Twitter

 UONline via myUON