# Bachelor of Computer Science

**SOFTWARE DEVELOPMENT MAJOR**

**Commencing in 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.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
</table>
|        | **COMP1010**  
Computing Fundamentals | **COMP1140**  
Database and Information Management |
|        | **MATH1110**  
Mathematics for Engineering, Science & Technology 1 | **MATH1510**  
Discrete Mathematics |
|        | **SENG1110**  
Object Orientated Programming | **SENG1050**  
Web Technologies |
|        | **ELECTIVE** | **SENG1120**  
Data Structures |
| Year 2 | **SENG2130**  
System Analysis and Design | **COMP2230**  
Algorithms |
|        | **SENG2200**  
Programming Languages and Paradigms | **COMP2240**  
Operating Systems |
|        | **DIRECTED** | **SENG2250**  
System and Network Security |
|        | **DIRECTED** | **SENG2260**  
Human-Computer Interaction |
| Year 3 | **COMP2270**  
Theory of Computation | **COMP3851B**  
Computer Science Work Integrated Learning Project Part B |
|        | **COMP3851A**  
Computer Science Work Integrated Learning Project Part A | **ELEC3500**  
Telecommunications Networks |
|        | **INFT3100**  
Project Management | **DIRECTED** |
|        | **SENG3320**  
Software Verification and Validation | **ELECTIVE** |

Program Plan Key:  
- **= Core**  
- **= Major**  
- **= Elective**

Information correct as of November 2018 and subject to change.
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 - 30 units.**

- **Directed courses - 30 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.
**Bachelor of Computer Science** – Software Development Major

**Directed Courses**

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

Choose **30 units** from the following directed courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG2050</td>
<td>Web Engineering</td>
</tr>
<tr>
<td>INFT2150</td>
<td>Business Analysis</td>
</tr>
<tr>
<td>COMP3260</td>
<td>Data Security</td>
</tr>
<tr>
<td>COMP3320</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>COMP3350</td>
<td>Advanced Database</td>
</tr>
<tr>
<td>INFT3950</td>
<td>Games Design</td>
</tr>
<tr>
<td>INFT3960</td>
<td>Games Production</td>
</tr>
</tbody>
</table>
## Helpful Hints & Tips

<table>
<thead>
<tr>
<th>ENROLMENT HELP</th>
<th>INFO FOR NEW STUDENTS</th>
<th>UNDERSTANDING COURSES &amp; PROGRAMS</th>
<th>PRIOR STUDY</th>
<th>CONSIDERING A BREAK?</th>
<th>MORE QUESTIONS?</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Icon] Need help? »</td>
<td>First year undergraduate students usually only enrol in 1000 level courses »</td>
<td>Not sure what courses to study? »</td>
<td>Check you have met the assumed knowledge and requisites for courses before enrolling »</td>
<td>Need to take a break? This is called a 'leave of absence'. Check if you are eligible »</td>
<td>We are here to answer questions about your program. Talk to us your way!</td>
</tr>
<tr>
<td>![Icon] How do I use the Web Timetable? »</td>
<td>New Postgraduate students should only enrol in 6000 level courses »</td>
<td>Understanding program and course jargon »</td>
<td>Have you studied elsewhere or transferred programs? Don't forget to apply for credit »</td>
<td>Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies »</td>
<td>Ask UON</td>
</tr>
<tr>
<td>![Icon] RULES</td>
<td>Find out all you need to know about getting started at uni »</td>
<td>Understanding UON Jargon »</td>
<td>UON offers a range of support services to assist with your health and wellbeing »</td>
<td></td>
<td>1300 ASK UON</td>
</tr>
</tbody>
</table>

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. Not sure what courses to 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. 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.