**PROGRAM PLAN**

**BACHELOR OF SOFTWARE ENGINEERING (HONOURS)**

**PROGRAM OPTION:** Full time or part time  
**START DATE:** Semester 2 2017 - 2020  
**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 Program Advisor to ensure you remain on track.

**PROGRAM HANDBOOK**

**COURSE HANDBOOK**

**NAME:**  
**STUDENT NO.:**

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### BACHELOR OF SOFTWARE ENGINEERING (HONOURS)

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>YEAR 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEM 1</strong></td>
<td><strong>SEM 2</strong></td>
<td><strong>SEMESTER 1</strong></td>
<td><strong>SEMESTER 2</strong></td>
<td><strong>SEMESTER 2</strong></td>
</tr>
<tr>
<td>ENGG1500 Introduction to Professional Engineering</td>
<td>COMP1140 Database and Information Management</td>
<td>COMP1010 Computing Fundamentals</td>
<td>SENG2250 System and Network Security</td>
<td>SENG4211B Software Engineering Final Year Project Part B (20 units)</td>
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<tr>
<td>SENG1120 Data Structures CORE</td>
<td>COMP2230 Algorithms CORE</td>
<td>ENGG2500 Sustainable Engineering Practice CORE</td>
<td>SENG3160 Software Project 2: Software Implementation, Testing, and Maintenance CORE</td>
<td>ELECTIVE This can be taken in any term, including summer or winter</td>
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<tr>
<td>SENG2050 Web Engineering CORE</td>
<td>COMP2240 Operating Systems CORE</td>
<td>SENG2200 Programming Languages and Paradigms CORE</td>
<td>ELEC3500 Telecommunication Networks Replaces SENG3400 CORE</td>
<td>ELECTIVE This can be taken in any term, including summer or winter</td>
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<tr>
<td>SENG2130 Systems Analysis and Design CORE</td>
<td>SENG2260 Human-Computer Interaction CORE</td>
<td>SENG3150 Software Project 1: Requirements Engineering and Design CORE</td>
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<tr>
<td><strong>SEM 1</strong></td>
<td><strong>SEM 2</strong></td>
<td><strong>SEMESTER 1</strong></td>
<td><strong>SEMESTER 2</strong></td>
<td><strong>SEMESTER 2</strong></td>
</tr>
<tr>
<td>DIRECTED This can be studied in either semester CORE</td>
<td>SENG2220 System and Network Security CORE</td>
<td>SENG3500 Managing Engineering Projects CORE</td>
<td>SENG4211A Software Engineering Final Year Project Part A CORE</td>
<td>SENG4400 Enterprise Software Architectures CORE</td>
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<tr>
<td>ENGG3320 Software Verification and Validation CORE</td>
<td>SENG3160 Software Project 2: Software Implementation, Testing, and Maintenance CORE</td>
<td>SENG4211A Software Engineering Final Year Project Part A CORE</td>
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<td>SENG4430 Software Quality Replaces SENG3130 CORE</td>
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<tr>
<td>SENG4211A Software Engineering Final Year Project Part A CORE</td>
<td>ELEC3500 Telecommunication Networks Replaces SENG3400 CORE</td>
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**COURSE STATUS KEY**

- C = Completed  
- En = Enrolled  
- NS = Not Started

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**COMPULSORY REQUIREMENT:** EXPOSURE TO PROFESSIONAL PRACTICE (EEP)/INDUSTRIAL EXPERIENCE (IE) 12 WEEKS

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If you have any questions visit [NEWCASTLE.EDU.AU/ASKUON](NEWCASTLE.EDU.AU/ASKUON)  
Information correct as of 02 December 2019 and subject to change  
Program code: 40056  
CRICOS Code: 021335C  
CRICOS Provider: 00109J
To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- **Core courses** – 270 units.
  * Enrolment in MATH courses is based on your current knowledge. To find out which MATH course you should enrol in please see the Enrolling in Maths information. More information in your Program Handbook
- **Directed courses** – 10 units
- **Elective pathway** – 40 units, visit the Program Handbook and Course Handbook for more information and to find electives
  Completion of MATH1002 will count as 10 units of electives
- Students must not exceed 120 units at 1000 level in this program.
- It is also a requirement that students complete a total of 12 weeks of exposure to professional practice/industrial experience. More information is here
- The duration of this program is 4 years full time (40 units per semester) or part time equivalent.
- The maximum time to complete this program is 10 years.

### DIRECTED COURSES

Please see the program handbook for the most up-to-date information

Complete 10 units from:

- COMP3260 Data Security
- COMP3290 Compiler Design
- COMP3320 Computer Graphics
- COMP3330 Machine Intelligence
- COMP3340 Data Mining
- COMP3350 Advanced Database
- COMP4110 Special Topic A
- COMP4120 Special Topic B
- COMP4130 Special Topic C – not currently offered
- COMP4240 Special Topic G – not currently offered
- SENG4150 Special Topics in Software Engineering – not currently offered
- SENG4160 Directed Studies in Software Engineering – not currently offered

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 Program Advisor.