

# FACULTY OF ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES



## 2017 STUDY PLAN

|   |          |       |  |       |          |                                     |          |       |
|---|----------|-------|--|-------|----------|-------------------------------------|----------|-------|
| <b>FOR ADVANCED STANDING - OFFICE USE ONLY</b>  |          |       |  |       |          |                                     |          |       |
| <input type="checkbox"/> Please mark the box to indicate advanced standing granted (use <b>CONDITIONAL</b> to denote conditional advanced standing) |          |       |  |       |          |                                     |          |       |
| Unspecified Elective Credit:  | Level 1: | units | Level 2:                               | units | Level 3: | units                               | Level 4: | units |
| Student ID Number:  |          |       | Student Name: _____,                   |       |          | Date: 3/02/17                       |          |       |
| Assessor Name:  |          |       | Advanced Standing Granted: _____ units |       |          | Remaining Program Duration: 3 years |          |       |
| Applicant's Previous Institution:   |          |       | Applicant's Previous Qualification:    |       |          |                                     |          |       |
| Assessor's Comments:  |          |       |  |       |          |                                     |          |       |

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

| BACHELOR OF COMPUTER SCIENCE |    |  |   |   |   |
|------------------------------|----|--|---|---|---|
| YEAR 1                       | S1 | a) SEE BELOW NOTES (3 units)* <input type="checkbox"/>                                   | Level I Elective or MATHS 1011 Mathematics IA (3 units)** <input type="checkbox"/>                                    | Level I Elective (3 units) <input type="checkbox"/>                       | Level I Elective (3 units) <input type="checkbox"/>                                   |
|                              | S2 | b) SEE BELOW NOTES (3 units)* <input type="checkbox"/>                                   | MATHS 1008 Mathematics for Information Technology I or MATHS 1012 Mathematics IB (3 units)** <input type="checkbox"/> | Level I Elective (3 units) <input type="checkbox"/>                       | COMP SCI 1106 Introduction to Software Engineering (3 units) <input type="checkbox"/> |
| YEAR 2                       | S1 | c) SEE BELOW NOTES (3 units)* <input type="checkbox"/>                                   | COMP SCI Level II Elective (3 units) <input type="checkbox"/>   | COMP SCI 2207 Web & Database Computing (3 units) <input type="checkbox"/> | COMP SCI 2000 Computer Systems (3 units) <input type="checkbox"/>                     |
|                              | S2 | d) COMP SCI 2201 Algorithm & Data Structure Analysis (3 units)* <input type="checkbox"/> | Level II Elective (3 units) <input type="checkbox"/>  | Level II Elective (3 units) <input type="checkbox"/>                      | Level I, II or III Elective (3 units) <input type="checkbox"/>                        |
| YEAR 3                       | S1 | COMP SCI 3001 Computer Networks and Applications (3 units) <input type="checkbox"/>      | COMP SCI Level III Elective (3 units) <input type="checkbox"/>  | COMP SCI Level III Elective (3 units) <input type="checkbox"/>            | Level III Elective (3 units) <input type="checkbox"/>                                 |
|                              | S2 | COMP SCI 3006 Software Engineering & Project (3 units) <input type="checkbox"/>          | MATHS 3015 Communication Skills III (3 units) <input type="checkbox"/>  | COMP SCI 3004 Operating Systems (3 units) <input type="checkbox"/>        | COMP SCI Level III Elective (3 units) <input type="checkbox"/>                        |

## 2017 STUDY PLAN

### CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

|            |  |   |  |  |
|------------|--|---|--|--|
| SEMESTER 1 | COMP SCI 1010 Puzzle Based Learning (3 units) <input type="checkbox"/>       | COMP SCI 1012 Scientific Computing (3 units) <input type="checkbox"/>                     | COMP SCI 1101 Introduction to Programming (3 units) <input type="checkbox"/>                                 | COMP SCI 2005 Systems Programming (3 units) <input type="checkbox"/>                             |
|            | COMP SCI 3005 Computer Architecture (3 units) <input type="checkbox"/>       | COMP SCI 3007 Artificial Intelligence (3 units) <input type="checkbox"/>                  | COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>   | COMP SCI 3305 Parallel and Distributed Computing (3 units) <input type="checkbox"/>              |
|            | COMP SCI 3306 Mining Big Data (3 units)                                      |   |  |  |
| SEMESTER 2 | COMP SCI 1101 Introduction to Programming (3 units) <input type="checkbox"/> | COMP SCI 2203 Problem Solving and Software Development (3 units) <input type="checkbox"/> | COMP SCI 2204 Advanced Programming Paradigms (3 units) <input type="checkbox"/>                              | COMP SCI 3004 Operating Systems (3 units) <input type="checkbox"/>                               |
|            | COMP SCI 3012 Distributed Systems (3 units) <input type="checkbox"/>         | COMP SCI 3013 Event Driven Computing (3 units) <input type="checkbox"/>                   | COMP SCI 3016 Computational Cognitive Science (3 units) <input type="checkbox"/><br><b>^NOT OFFERED 2017</b> | COMP SCI 3301 Advanced Algorithms (3 units) <input type="checkbox"/><br><b>^NOT OFFERED 2017</b> |
|            | COMP SCI 3307 Secure Programming (3 units)                                   |   |  |  |

Note: Electives may be any University of Adelaide Undergraduate course for which the student meets the pre-requisites. Please check the availability, restriction and incompatible section on the course planner for elective choices.

How to choose an elective course in your area of interest? Please refer to the steps via the link: <http://www.ecms.adelaide.edu.au/current-students/new-students/#tab-5-content>

#### \*STUDENTS WITH PRIOR PROGRAMMING EXPERIENCE:

Do not need to complete COMP SCI 1101 Introduction to Programming and therefore complete the following courses in the order listed a) COMP SCI 1102 Object Oriented Programming b) COMP SCI 1103 Algorithm Design and Data Structures c) Level I, II or III Elective d) COMP SCI 2201 Algorithm & Data Structure Analysis

#### \*STUDENTS WITH NO PRIOR PROGRAMMING EXPERIENCE:

Complete the following courses in the order listed a) COMP SCI 1101 Introduction to Programming b) COMP SCI 1102 Object Oriented Programming c) COMP SCI 1103 Algorithm Design and Data Structures d) COMP SCI 2201 Algorithm & Data Structure Analysis

\*\* To enrol in MATHS 1012 Mathematics IB students must first pass MATHS 1011 Mathematics IA, this is presented as a level 1 elective. Entry into MATHS 1011 Mathematics IA requires SACE Stage 2 Specialist Mathematics, or a pass in MATHS 1013 Mathematics IM. The Mathematics IA/IB pathway is for students who want to study extra mathematics. A pass in Mathematics IB is prerequisite for all Level II Mathematics courses.

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|--|----------|-------|-------------------------------------|-------|----------|-------------------------------------|----------|-------|
| <b>FOR ADVANCED STANDING - OFFICE USE ONLY</b>   |          |       |                                     |       |          |                                     |          |       |
| <input checked="" type="checkbox"/> Please mark the box to indicate advanced standing granted (use <b>CONDITIONAL</b> to denote conditional advanced standing) |          |       |                                     |       |          |                                     |          |       |
| Unspecified Elective Credit:   | Level 1: | units | Level 2:                            | units | Level 3: | units                               | Level 4: | units |
| Student ID Number:   |          |       | Student Name,;                      |       |          | Date: 3/02/17                       |          |       |
| Assessor Name:   |          |       | Advanced Standing Granted: units    |       |          | Remaining Program Duration: 4 years |          |       |
| Applicant's Previous Institution:  |          |       | Applicant's Previous Qualification: |       |          |                                     |          |       |
| Assessor's Comments:   |          |       |                                     |       |          |                                     |          |       |

This study plan should be used to guide enrolment for the current academic year. Some students may need to modify their enrolment based on previous study (e.g. students granted advanced standing/credit, students repeating previously failed courses).

### BACHELOR OF COMPUTER SCIENCE– Semester 2 Start

|        |     | BACHELOR OF COMPUTER SCIENCE– Semester 2 Start   |  |  |  |
|--------|-----|--|--|--|--|
| YEAR 1 | S 2 | a) SEE BELOW NOTES (3 units)*<br><input type="checkbox"/>                              | MATHS 1008 Mathematics for Information Technology I or MATHS 1011 Mathematics IA (3 units)**<br><input type="checkbox"/> | Level I Elective (3 units)<br><input type="checkbox"/>                       | COMP SCI 1106 Introduction to Software Engineering (3 units)<br><input type="checkbox"/> |
|        | S 1 | b) SEE BELOW NOTES (3 units)*<br><input type="checkbox"/>                              | Level I Elective (3 units) or MATHS 1012 Mathematics IB (3 units)**<br><input type="checkbox"/>                          | COMP SCI 2207 Web & Database Computing (3 units)<br><input type="checkbox"/> | Level I Elective (3 units)<br><input type="checkbox"/>                                   |
| YEAR 2 | S 2 | c) SEE BELOW NOTES (3 units)*<br><input type="checkbox"/>                              | COMP SCI 2000 Computer Systems (3 units)<br><input type="checkbox"/>   | Level II Elective (3 units)<br><input type="checkbox"/>                      | Level I, II or III Elective (3 units)<br><input type="checkbox"/>                        |
|        | S 1 | COMP SCI 3001 Computer Networks and Applications (3 units)<br><input type="checkbox"/> | Level II Elective (3 units)<br><input type="checkbox"/>  | COMP SCI Level II Elective (3 units)<br><input type="checkbox"/>             | Level II Elective (3 units)<br><input type="checkbox"/>                                  |
| YEAR 3 | S 2 | d) SEE BELOW NOTES (3 units)*<br><input type="checkbox"/>                              | MATHS 3015 Communication Skills III (3 units)<br><input type="checkbox"/>  | COMP SCI 3004 Operating Systems (3 units)<br><input type="checkbox"/>        | COMP SCI 3006 Software Engineering & Project (3 units)<br><input type="checkbox"/>       |

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## 2017 STUDY PLAN

|        |     |  |  |  |   |
|--------|-----|--|--|--|---|
| YEAR 4 | S 1 | COMP SCI Level III Elective (3 units) <input type="checkbox"/> | COMP SCI Level III Elective (3 units) <input type="checkbox"/> | COMP SCI Level III Elective (3 units) <input type="checkbox"/> | Level III Elective (3 units) <input type="checkbox"/> |
|        | S 2 |  |  |  |   |

### CHOOSE FROM THE FOLLOWING COMPUTER SCIENCE ELECTIVES

|            |  |   |  |  |
|------------|--|---|--|--|
| SEMESTER 1 | COMP SCI 1010 Puzzle Based Learning (3 units) <input type="checkbox"/>       | COMP SCI 1012 Scientific Computing (3 units) <input type="checkbox"/>                     | COMP SCI 1101 Introduction to Programming (3 units) <input type="checkbox"/>                                 | COMP SCI 2005 Systems Programming (3 units) <input type="checkbox"/>                             |
|            | COMP SCI 3005 Computer Architecture (3 units) <input type="checkbox"/>       | COMP SCI 3007 Artificial Intelligence (3 units) <input type="checkbox"/>                  | COMP SCI 3014 Computer Graphics (3 units) <input type="checkbox"/>   | COMP SCI 3305 Parallel and Distributed Computing (3 units) <input type="checkbox"/>              |
|            | COMP SCI 3306 Mining Big Data (3 units)                                      |   |  |  |
| SEMESTER 2 | COMP SCI 1101 Introduction to Programming (3 units) <input type="checkbox"/> | COMP SCI 2203 Problem Solving and Software Development (3 units) <input type="checkbox"/> | COMP SCI 2204 Advanced Programming Paradigms (3 units) <input type="checkbox"/>                              | COMP SCI 3004 Operating Systems (3 units) <input type="checkbox"/>                               |
|            | COMP SCI 3012 Distributed Systems (3 units) <input type="checkbox"/>         | COMP SCI 3013 Event Driven Computing (3 units) <input type="checkbox"/>                   | COMP SCI 3016 Computational Cognitive Science (3 units) <input type="checkbox"/><br><b>^NOT OFFERED 2017</b> | COMP SCI 3301 Advanced Algorithms (3 units) <input type="checkbox"/><br><b>^NOT OFFERED 2017</b> |
|            | COMP SCI 3307 Secure Programming (3 units)                                   |   |  |  |

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### \*STUDENTS WITH PRIOR PROGRAMMING EXPERIENCE:

Do not need to complete COMP SCI 1101 Introduction to Programming and therefore must complete the following courses in the order listed a) COMP SCI 1102 Object Oriented Programming b) COMP SCI 1103 Algorithm Design and Data Structures c) Level I, II or III Elective d) COMP SCI 2201 Algorithm & Data Structure Analysis

### \*STUDENTS WITH NO PRIOR PROGRAMMING EXPERIENCE:

Complete the following courses in the order listed a) COMP SCI 1101 Introduction to Programming b) COMP SCI 1102 Object Oriented Programming c) COMP SCI 1103 Algorithm Design and Data Structures d) COMP SCI 2201 Algorithm & Data Structure Analysis

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