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).

### GRADUATE CERTIFICATE IN COMPUTER SCIENCE

**YEAR 1**

<table>
<thead>
<tr>
<th>Elective Course (3 units)</th>
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**LEVEL II ELECTIVES**

- COMP SCI 7202 Foundations of Computer Science (6 units)
- COMP SCI 7084 Introduction to Software Engineering (3 units)
- COMP SCI 7301 Advanced Algorithms (3 units)
- COMP SCI 7031 Advanced Programming Paradigms (3 units)

**LEVEL III ELECTIVES**

- COMP SCI 7201 Algorithm & Data Structure Analysis (3 units)
- COMP SCI 7088 Systems Programming (3 units)
- COMP SCI 7015 Software Engineering & Project (3 units)
- COMP SCI 7039 Computer Networks & Applications (3 units)

- COMP SCI 7081 Computer Systems (3 units)
- COMP SCI 7083 Database & Information Systems (3 units) *
- COMP SCI 7026 Computer Architecture (3 units)
- COMP SCI 7059 Artificial Intelligence (3 units)
- COMP SCI 7064 Operating Systems (3 units)
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>COMP SCI 7076 Distributed Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMP SCI 7089 Event Driven Computing</td>
<td>3</td>
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<tr>
<td>COMP SCI 7090 Computer Graphics</td>
<td>3</td>
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</tbody>
</table>

^ course not available in 2014