**Recommended Study Pathway for BEng in Computer Science**

<table>
<thead>
<tr>
<th>1st Year Fall</th>
<th>Credits</th>
<th>1st Year Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>U. Core English I</td>
<td>3</td>
<td>U. Core English II</td>
<td>3</td>
</tr>
<tr>
<td>U. Core QR: MATH 1013/1023 (Calculus I/Honors Calculus I)</td>
<td>3</td>
<td>U. Core QR: MATH 1014/1024 (Calculus II/Honors Calculus II)</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Programming course: COMP 1021/1022P/1022Q*</td>
<td>3</td>
<td>U. Core S&amp;T: CHEM 1004/1010/1020 or LIFS 1901 or PHYS 1001/1112/1152/1312</td>
<td>2—3</td>
</tr>
<tr>
<td>ENGG 1010 (Academic Orientation)</td>
<td>0</td>
<td>ENGG 1010 (Academic Orientation)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9</td>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>2nd Year Fall</th>
<th>Credits</th>
<th>2nd Year Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANG 2030 (Tech. Comm. I)</td>
<td>3</td>
<td>MATH 2411 / MATH 2421 / ELEC 2600</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2111 (Matrix Algebra)</td>
<td>3</td>
<td>/ IELM 2510 (Appl. Stat. / Prob.)</td>
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<tr>
<td>COMP 2011 (Intro. to OOP)</td>
<td>4</td>
<td>COMP 2012 (OOP &amp; Data Structure)</td>
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</tr>
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<td>COMP 2711 (Discrete Math)</td>
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</tr>
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<td>0</td>
<td>COMP 1991 (Industrial Experience)</td>
<td>0</td>
</tr>
<tr>
<td>ENGG 2010 (Engineering Seminar Series)^</td>
<td>0</td>
<td>COMP 4900 (Academic and Professional Development)</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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<table>
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<tr>
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<tbody>
<tr>
<td>COMP 3111 (Software Engineering)</td>
<td>4</td>
<td>COMP Area Elective #</td>
<td>3</td>
</tr>
<tr>
<td>COMP 3511 (Operating Systems)</td>
<td>3</td>
<td>COMP Area Elective</td>
<td>3</td>
</tr>
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</tr>
<tr>
<td>LANG 4030 (Tech Comm. II)</td>
<td>3</td>
<td>COMP Other-area Elective</td>
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* COMP students may use COMP 1021/1022P/1022Q to fulfill the Engineering Introduction course requirement.

^: For COMP entrants of 2014-15 or after.

# Students must take 3 COMP courses from one area and 2 courses from other area(s).
Note:
(1) The program requires a minimum of 120 credits for graduation.
(2) At least 105—112 credits should come from the following: 15—18 credits from Engineering Fundamental Courses, 36—40 credits from COMP Required Courses, 18 credits from COMP Electives, and 36 credits from UCore.
(3) A maximum of 6 credits may be double counted between UCore and Major.
# Recommended Normal Study Pathway for BEng in Computer Science

## Plus One-Semester Leave (e.g., Exchange-Out/Internship)

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<td>(Assumption: no credits earned from the leave)</td>
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(3) A maximum of 6 credits may be double counted between UCore and Major.
### Recommended Normal Study Pathway for BEng in Computer Science Plus a Minor

#### 1st Year Fall Credits
- **U. Core English I**: 3
- **U. Core QR: MATH 1013/1023 (Calculus I/Honors Calculus I)**: 3
- **Introductory Programming course**: 3
- **COMP 1021/1022P/1022Q**: 3
- **ENGG 1010 (Academic Orientation)**: 0

Total: 9

#### 1st Year Spring Credits
- **U. Core English II**: 3
- **U. Core QR: MATH 1014/1024 (Calculus II/Honors Calculus II)**: 3
- **U. Core S&T: CHEM 1004/1010/1020 or LIFS 1901 or PHYS 1001/1112/1152/1312**: 2—3
- **ENGG 1010 (Academic Orientation)**: 0

Total: 8—9

#### 2nd Year Fall Credits
- **LANG 2030 (Tech. Comm. I)**: 3
- **MATH 2411 / MATH 2421 / ELEC 2600 / IELM 2510 (Appl. Stat. / Prob.)**: 4
- **COMP 2711 (Discrete Math)**: 4
- **COMP 4900 (Academic and Professional Development)**: 0
- **ENGG 2010 (Engineering Seminar Series)^**: 0

Total: 14

#### 2nd Year Spring Credits
- **COMP 2011 (Intro. to OOP)**: 4
- **COMP 2611 (Computer Organization)**: 4
- **Minor Elective**: 3

Total: 15

#### 3rd Year Fall Credits
- **COMP 3111 (Software Engineering)**: 4
- **COMP 3511 (Operating Systems)**: 3
- **COMP 3711 (Design/Analysis Alg.)**: 3
- **Minor Elective**: 3
- **COMP 1991 (Industrial Experience)**: 0

Total: 13

#### 3rd Year Spring Credits
- **Minor Elective**: 3
- **COMP 1991 (Industrial Experience)**: 0

Total: 12

#### 4th Year Fall Credits
- **COMP 4981/H (FYP/FYT)**: 3
- **LANG 4030 (Tech Comm. II)**: 3
- **Minor Elective**: 3
- **COMP 1991 (Industrial Experience)**: 0

Total: 15

#### 4th Year Spring Credits
- **COMP 4981/H (FYP/FYT continued)**: 3
- **COMP 4900 (Academic and Professional Development)**: 0

Total: 12
* COMP students may use COMP 1021/1022P/1022Q to fulfill the Engineering Introduction course requirement.

^: For COMP entrants of 2014-15 or after.

# Students must take 3 COMP courses from one area and 2 courses from other area(s).

Note:
(1) The program requires a minimum of 120 credits for graduation.
(2) At least 105—112 credits should come from the following: 15—18 credits from Engineering Fundamental Courses, 36—40 credits from COMP Required Courses, 18 credits from COMP Electives, and 36 credits from UCore.
(3) A maximum of 6 credits may be double counted between UCore and Major.
(4) A minor consists of 18 credits or roughly six 3-credit courses.