# BEng in Computer Science

## Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1000H</td>
<td>Introduction to Computing</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1020</td>
<td>Programming with C++</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1021</td>
<td>Accelerated Calculus</td>
<td>4</td>
</tr>
<tr>
<td>COMP 1022P</td>
<td>Design and Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMP 2000-level or above Elective</td>
<td>(Any course(s) of the subject and level as specified)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required credits for Engineering Fundamentals Courses**: 22-24

## Required Courses and Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 1022H</td>
<td>Design and Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMP 1023H</td>
<td>Advanced Algorithms</td>
<td>4</td>
</tr>
<tr>
<td>COMP 2000-level or above Elective</td>
<td>(Any course(s) of the subject and level as specified)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required credits for Major Required Courses and Electives**: 37

## Additional Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP 3111</td>
<td>Discrete Mathematical Tools for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>COMP 3111H</td>
<td>Honors Discrete Mathematical Tools for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1012 or MATH 1013 or MATH 1020</td>
<td>Calculus IA</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1023</td>
<td>Calculus IB</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2411</td>
<td>Advanced Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2211H</td>
<td>Honors Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required credits for Additional Requirements**: 17-18

## BBA in Global Business

### School Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1003</td>
<td>Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1012</td>
<td>Accelerated Calculus</td>
<td>4</td>
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<tr>
<td>MATH 1013</td>
<td>Calculus IB</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1020</td>
<td>Calculus IA</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2411</td>
<td>Advanced Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required credits for School Requirements**: 19-21

## Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS2103</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS2104</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS2105</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS2106</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUS2107</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BUS2108</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BUS2109</td>
<td>Business Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>BUS2110</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS2111</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required credits for Major Required Courses and Electives**: 30-32

## Additional Requirements

### Requirements for Dual Degree Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Discrete Mathematical Tools for Computer Science</td>
<td>3</td>
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<tr>
<td>MATH 1023</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 2411</td>
<td>Advanced Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required credits for Additional Requirements**: 17-18

### University CORE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG1101</td>
<td>English I</td>
<td>3</td>
</tr>
<tr>
<td>ENG1102</td>
<td>English II</td>
<td>3</td>
</tr>
<tr>
<td>ENG1103</td>
<td>English III</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required credits for University CORE**: 9

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**Remarks**

- To graduate, students should complete all requirements as specified for DDP.
- **Remarks**

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**An Example on Student's Pathway (as of July 22, 2022)**

**Year 1 Fall**

- COMP 1000H: Introduction to Computing
- COMP 1020: Programming with C++
- MATH 1003: Calculus

**Year 1 Spring**

- COMP 1021: Accelerated Calculus
- COMP 1022P: Design and Analysis of Algorithms
- MATH 1012: Calculus IA

**Year 2 Fall**

- COMP 2000-level or above Elective
- COMP 1022H: Design and Analysis of Algorithms
- COMP 1023H: Advanced Algorithms

**Year 2 Spring**

- COMP 2000-level or above Elective
- COMP 3111: Discrete Mathematical Tools for Computer Science
- COMP 3111H: Honors Discrete Mathematical Tools for Computer Science

**Year 3 Fall**

- COMP 3111: Discrete Mathematical Tools for Computer Science
- COMP 3111H: Honors Discrete Mathematical Tools for Computer Science
- MATH 1012 or MATH 1013 or MATH 1020: Calculus IA

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**Recommended Notes**

- **Remarks**: For description of picking major and Declaration of majors.
- **Remarks**: For description of picking major.
- **Recommended Notes**: For description of picking major.
- **Remarks**: For description of picking major.
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**Course Offerings and Schedule**

- Students should check course offerings and scheduling from respective School and Department.

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**Course Code Prefixes**

- COMP: Computer Science
- ELEC: Electrical Engineering
- ENGG: Engineering
- LANG: Language
- MATH: Mathematics
- ISOM: Information Systems
- MGMT: Management
- TEMG: Industrial Engineering
- IEDA: Industrial Engineering
- LIFS: Life Sciences