# Computer Engineering: Software Systems for Ubiquitous Computing and Business (Option D)

**September 2020** (for students who entered first year in September 2017)

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Term A</th>
<th>Term B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AM 2270A</strong></td>
<td>Applied Mathematics for Engineering II</td>
<td></td>
</tr>
<tr>
<td><strong>CS 1037A</strong></td>
<td>Computer Science Fundamentals II</td>
<td></td>
</tr>
<tr>
<td><strong>ECE 2205A</strong></td>
<td>Electric Circuits I</td>
<td></td>
</tr>
<tr>
<td><strong>ECE 2277A</strong></td>
<td>Digital Logic Systems</td>
<td></td>
</tr>
<tr>
<td><strong>Math 2151A</strong></td>
<td>Discrete Structures for Engineering</td>
<td></td>
</tr>
<tr>
<td><strong>SE 2203A</strong></td>
<td>Software Design</td>
<td></td>
</tr>
<tr>
<td><strong>BUS 2257</strong></td>
<td>Accounting and Business Analysis</td>
<td></td>
</tr>
</tbody>
</table>

| **AM 2276B** | Applied Mathematics for Elec. & Mech. Engineering III |
| **ECE 3375B** | Microprocessors and Microcomputers |
| **ECE 3380B** | Advanced Digital Systems |
| **MSE 2233B** | Circuits and Systems |
| **SE 2205B** | Algorithms and Data Structures for Object-Oriented Design |
| **BUS 2257** | Accounting and Business Analysis |

<table>
<thead>
<tr>
<th>Year 3: HBA 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term A</th>
<th>Term B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECE 3389A</strong></td>
<td>Computer System Design</td>
</tr>
<tr>
<td><strong>ECE 4436A</strong></td>
<td>Networking: Principles, Protocols &amp; Architecture</td>
</tr>
<tr>
<td><strong>SE 3313A</strong></td>
<td>Operating Systems for Software Engineering</td>
</tr>
<tr>
<td><strong>SE 3316A</strong></td>
<td>Web Technologies</td>
</tr>
<tr>
<td><strong>SE 3352A</strong></td>
<td>Software Requirements and Analysis</td>
</tr>
<tr>
<td><strong>BUS 4569</strong></td>
<td>Ivey Field Project</td>
</tr>
</tbody>
</table>

| **ECE 3331B** | Introduction to Signal Processing |
| **ECE 3390B** | Hardware/Software Co-Design |
| **ECE 4460B** | Real-Time and Embedded Systems |
| **SE 3314B** | Design and Implementation of Computer Networks |
| **SE 3353B** | Human-Computer Interface Design |
| **SS 2143B** | Applied Statistics and Data Analysis for Engineers |

| Year 5 |

<table>
<thead>
<tr>
<th>Term A</th>
<th>Term B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECE 4415</strong></td>
<td>Computer Engineering Design Project</td>
</tr>
<tr>
<td><strong>ECE 3330A</strong></td>
<td>Control Systems</td>
</tr>
<tr>
<td><strong>ECE 4437A</strong></td>
<td>Communications Theory</td>
</tr>
<tr>
<td><strong>SE 4452A</strong></td>
<td>Software Verification and Validation</td>
</tr>
</tbody>
</table>

1.5 HBA required courses**

- International Perspective Requirement: Business 4505A/B.
- Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.
- Managerial Accounting Requirement: Business 4624A/B

Three 0.5-credit Business electives from the 4000-level Business courses