# Computer Engineering – Software Systems for Ubiquitous Computing

For Students Entering 2nd or 3rd Year in Fall 2016

## Year 2:

### Term A
- AM 2270a  Applied Mathematical Methods
- Math 2151a  Discrete Structures for Engineering
- CS 1037a  Computer Science Fundamentals II
- ECE 2205a  Electric Circuits I
- ECE 2277a  Digital Logic Systems
- SE 2203a  Software Design

### Term B
- AM 2276b  Applied Mathematical Methods
- ECE 3375b  Microprocessors and Microcomputers
- ECE 3380b  Advanced Digital Systems
- MSE 2233b  Circuits and Systems
- SE 2205b  Algorithms and Data Structures for Object-Oriented Des.
- SS 2143b  Applied Statistics and Data Analysis for Engineers

## Year 3:

### Term A
- ECE 3330a  Control Systems
- ECE 3389a  Computer System Design
- ECE 4436a  Networking: Principles, Protocols, and Architecture
- SE 3313a  Operating Systems for Software Engineering
- SE 3316a  Web Technologies
- SE 3352a  Software Requirements and Analysis

### Term B
- 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
- ES 2211G  Engineering Communications

## Year 4:

### Term A
- Bus 2299E  Business for Engineers
- ECE 4415  Computer Engineering Design Project
- ECE 4437a  Communications Theory
- SE 4452a  Software Verification and Validation
  - Two 0.5 technical electives

### Term B
- Bus 2299E  Business for Engineers
- ECE 4415  Computer Engineering Design Project
- SE 4453b  Software Quality, Reliability and Maintenance
- ES 4498G  Engineering Ethics, Sustainable Development and the Law
  - One 0.5 technical elective
  - 0.5 non-technical elective taken from the approved list

## Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the department for accurate listing.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECE 4429a/b</td>
<td>Advanced Digital Signal Processing</td>
</tr>
<tr>
<td>ECE 4438a/b</td>
<td>Advanced Image Processing and Analysis</td>
</tr>
<tr>
<td>ECE 4445a/b</td>
<td>Introduction to Digital Image Processing</td>
</tr>
<tr>
<td>ECE 4455a/b</td>
<td>Biomedical Systems Analysis</td>
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<tr>
<td>ECE 4469a/b</td>
<td>Applied Control Systems</td>
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<td><strong>Maximum one of:</strong></td>
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<tr>
<td>SE 3309a/b</td>
<td>Database Management Systems</td>
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<tr>
<td>SE 3310a/b</td>
<td>Theoretical Foundations of Software</td>
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<td>Engineering</td>
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<tr>
<td>SE 3351a/b</td>
<td>Software Project and Process Management</td>
</tr>
<tr>
<td>SE 4472a/b</td>
<td>Information Security</td>
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The official version of the academic calendar can be found at: [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)
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