## Computer Engineering – Electronic Devices for Ubiquitous Computing (Option A)

### September 2017 (students who entered first year *prior* to September 2016)

### Year 2:

**Term A**
- AM 2270a  Applied Mathematical Methods
- CS 1037a  Computer Science Fundamentals II
- ECE 2205a  Electric Circuits 1
- ECE 2240a  Electrical Laboratory
- ECE 2277a  Digital Logic Systems
- ES 2211F  Engineering Communications

**Term B**
- AM 2276b  Applied Mathematical Methods
- ECE 2231b  Introduction to Electronics
- ECE 2233b  Circuits and Systems
- ECE 2241b  Electrical Laboratory II
- ECE 3375b  Microprocessors and Microcomputers
- ECE 3380b  Advanced Digital Systems

### Year 3:

**Term A**
- CS 2211a  Software Tools and Systems Programming
- ECE 3330a  Control Systems
- ECE 3349a  Introduction of VLSI
- ECE 3389a  Computer System Design
- Math 2151a  Discrete Structures for Engineering
- SE 2203a  Software Design

**Term B**
- CS 2210b  Data Structures and Algorithms
- ECE 2236b  Magnetic Circuits and Transmission Lines
- ECE 3331b  Introduction to Signal Processing
- ECE 3390b  Hardware/Software Co-Design
- SS 2143b  Applied Statistics & Data Analysis
- 0.5 non-technical elective taken from the approved list

### Year 4:

**Term A**
- Bus 2299E  Business for Engineers
- ECE 4436a  Networking
- ECE 4437a  Communications Theory
- ECE 4415  Computer Engineering Design Project
- SE 3313a  Operating Systems for Software Engineering
- One 0.5 technical elective

**Term B**
- Bus 2299e  Business for Engineers
- ECE 4415  Computer Engineering Design Project
- ECE 4460b  Real-Time and Embedded Systems
- ES 4498g  Engineering Ethics, Sustainable Development and the Law
- SE 3314b  Computer Networks Applications
- One 0.5 technical elective

### NOTES:

#### 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 Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 3332a/b</td>
<td>Electric Machines</td>
</tr>
<tr>
<td>ECE 3333a/b</td>
<td>Electric Power Systems 1</td>
</tr>
<tr>
<td>ECE 3337a/b</td>
<td>Electronic Circuits</td>
</tr>
<tr>
<td>ECE 3370a/b</td>
<td>Communication Electronics 1</td>
</tr>
<tr>
<td>ECE 4429a/b</td>
<td>Advanced Digital Signal Processing</td>
</tr>
<tr>
<td>ECE 4438a/b</td>
<td>Advanced Image Processing &amp; 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>
</tr>
<tr>
<td>ECE 4469a/b</td>
<td>Applied Control Systems</td>
</tr>
</tbody>
</table>

**Maximum one of:**

- CS 3319a/b  Databases 1
- CS 3340a/b  Analysis of Algorithms 1
- CS 3346a/b  Artificial Intelligence 1

---

*The official version of the academic calendar can be found at: [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca)*