# Computer Engineering – Software Systems for Ubiquitous Computing (Option B)
For Students Entering 2nd Year in Fall 2015

## Year 2:

### Term A
- AM 2270a: Applied Mathematics for Engineering II
- Math 2151a: Discrete Structures for Engineering
- CS 1037a: Computer Science Fundamentals II
- ECE 2205a: Electric Circuits 1
- ECE 2277a: Digital Logic Systems
- SE 2203a: Software Design

### Term B
- AM 2276b: Applied Mathematics for Elec & Mech Eng 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 Des.
- SS 2143b: Applied Statistics & Data Analysis

## Year 3:

### Term A
- ECE 3330a: Control Systems
- ECE 3389a: Computer System Design
- 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-course technical electives from the approved list

### 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-course technical elective from the approved list
- 0.5-course non-technical elective from the approved list

## NOTES:

#### Technical Elective List:

- ECE 4429a/b: Advanced Digital Signal Processing
- ECE 4438a/b: Advanced Image Processing and Analysis
- ECE 4445a/b: Introduction to Digital Image Processing
- ECE 4455a/b: Biomedical Systems Analysis
- ECE 4469a/b: Applied Control Systems

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

### Maximum one of:

- SE 3309a/b: Database Management Systems
- SE 3310a/b: Theoretical Foundations of Software Engineering
- SE 3351a/b: Software Project and Process Management
- SE 4472a/b: Information Security

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The official version of the academic calendar can be found at: www.westerncalendar.uwo.ca