Computer Engineering: Software Systems for Ubiquitous Computing (Option B)
September 2021 (for students who entered first year in September 2018)

Year 2
Term A
AM 2270A  Applied Mathematics for Engineering II
SE 2202A  Scripting Programming Language Fundamentals
ECE 2205A  Electric Circuits I
ECE 2277A  Digital Logic Systems
Math 2151A  Discrete Structures for Engineering
SE 2203A  Software Design

Term B
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
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 & 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
Writ 2130G  Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers

Year 4
Term A
ECE 4415  Computer Engineering Design Project
ECE 4437A  Communications Theory
SE 4452A  Software Verification and Validation
One 0.5-credit non-technical elective from approved list
Two 0.5-credit technical electives

Term B
ECE 4415  Computer Engineering Design Project
ELI 4110G  Engineering Ethics, Sustainable Development & the Law
SE 4455B  Cloud Computing: Concepts, Technologies and Applications
One 0.5-credit technical elective
Two 0.5-credit non-technical electives from approved list

NOTES:

Non-technical electives:
Please choose 1.0 credits (one 1.0-credit or two 0.5-credit courses) from the 1000 level and one 0.5-credit course from the 2000 (or higher) level.

Technical Electives
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>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>
</tr>
<tr>
<td>ECE 4469A/B</td>
<td>Applied Control Systems</td>
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<th>Maximum one of:</th>
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<tbody>
<tr>
<td>SE 3309A/B</td>
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<tr>
<td>SE 3310A/B</td>
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<tr>
<td>SE 3351A/B</td>
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<tr>
<td>SE 4460 A/B</td>
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<td>SE 4472A/B</td>
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The official version of the academic calendar can be found at: www.westerncalendar.uwo.ca