### Electrical: Wireless Communications (Option C)

September 2018 (students who entered first year September 2016)

#### Year 2:

**Term A**
- AM 2270a Applied Mathematics for Engineering II
- CS 1037a Computer Science Fundamentals II
- ECE 2205a Electric Circuits I
- ECE 2277a Digital Logic Systems
- ECE 2240a Electrical Laboratory
- ES 2211f Engineering Communications

**Term B**
- AM 2276b Applied Mathematics for Elec. & Mech Eng. III
- ECE 2231b Introduction to Electronics
- ECE 2233b Circuits and Systems
- ECE 2236b Magnetic Circuits and Transmission Lines
- ECE 2241b Electrical Laboratory II
- MME 2234b Heat Transfer and Dynamics

#### Year 3:

**Term A**
- AM 3415a Applied Mathematics for Electrical Engineering II
- ECE 3330a Control Systems
- ECE 3332a Electric Machines
- ECE 3337a Electronic Circuits
- SS 2141a Applied Probability and Statistics for Engineers
- 0.5 non-technical elective taken from the approved list

**Term B**
- ECE 3331b Introduction to Signal Processing
- ECE 3333b Electric Power Systems I
- ECE 3336b Electromagnetic Theory
- ECE 3370b Communication Electronics I
- ECE 3375b Microprocessors and Microcomputers
- ECE 3399b Principles and Practices of Design in Electronic Systems

#### Year 4:

**Term A**
- ECE 4416 Electrical/Computer Engineering Project
- ECE 4429a Advanced Digital Signal Processing
- ECE 4432a Radiation and Propagation
- ECE 4437a Communications Theory
- ECE 4436a Networking: Principles, Protocols, and Architecture
- 0.5 non-technical elective taken from the approved list

**Term B**
- ECE 4416 Electrical/Computer Engineering Project
- ECE 4433b Digital Communications Systems
- ES 4498G Engineering Ethics, Sustainable Development and the Law
- 0.5 non-technical elective taken from the approved list
- Two 0.5 technical electives

### 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 from the 2000+ level.

### Technical Elective List:

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

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<th>Course Title</th>
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<td>ECE 3349a/b</td>
<td>Introduction of VLSI</td>
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<td>ECE 3380a/b</td>
<td>Advanced Digital Systems</td>
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<tr>
<td>ECE 4430a/b</td>
<td>Selected Topics in Electrical Eng. I</td>
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<tr>
<td>ECE 4431a/b</td>
<td>Selected Topics in Electrical Eng. I</td>
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<tr>
<td>ECE 4438a/b</td>
<td>Adv. Image Processing &amp; Analysis</td>
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<td>ECE 4439a/b</td>
<td>Conventional, Renewable and Nuclear Energy</td>
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<td>ECE 4445a/b</td>
<td>Intro. to Digital Image Processing</td>
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<td>ECE 4451a/b</td>
<td>Advanced Topics in Wireless</td>
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<td>ECE 4455a/b</td>
<td>Biomedical Systems Analysis</td>
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<td>ECE 4456a/b</td>
<td>Power Systems Protection</td>
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<td>ECE 4457a/b</td>
<td>Power Electronics</td>
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<td>ECE 4460a/b</td>
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<tr>
<td>ECE 4464a/b</td>
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<td>ECE 4468a/b</td>
<td>Systems Optimization</td>
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<td>ECE 4469a/b</td>
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<td>MME 4452a/b</td>
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<td>MME 4473a/b</td>
<td>Computer Integrated Manufacturing</td>
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<td>MME 4482a/b</td>
<td>Fundamental of MEMS</td>
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<tr>
<td>MME 4487a/b</td>
<td>Mechatronic System Design</td>
</tr>
</tbody>
</table>

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