# Electrical Engineering and Business (Option B)

**September 2019 (for students who entered first year in September 2018)**

<table>
<thead>
<tr>
<th>Year 2</th>
<th>NOTES:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term A</strong></td>
<td><strong>1.5 HBA required courses:</strong></td>
</tr>
<tr>
<td>AM 2270A</td>
<td>• International Perspective Requirement: Business 4505A/B.</td>
</tr>
<tr>
<td>CS 1027A</td>
<td>• Corporations and Society Requirement: at least 0.5-credit from Business Administration</td>
</tr>
<tr>
<td>ECE 2205A</td>
<td>– Corporations and Society designated electives offered during the academic year or</td>
</tr>
<tr>
<td>ECE 2240A</td>
<td>other business elective as determined and approved by the HBA Program Director to satisfy</td>
</tr>
<tr>
<td>ECE 2277A</td>
<td>this requirement.</td>
</tr>
<tr>
<td>BUS 2257</td>
<td>• Managerial Accounting Requirement: Business 4624A/B</td>
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<table>
<thead>
<tr>
<th>Term B</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ECE 2231B</td>
<td>Introduction to Electronics</td>
</tr>
<tr>
<td>ECE 2233B</td>
<td>Circuits and Systems</td>
</tr>
<tr>
<td>ECE 2236B</td>
<td>Magnetic Circuits and Transmission Lines</td>
</tr>
<tr>
<td>ECE 2242B</td>
<td>Principles of Design in Electrical Engineering</td>
</tr>
<tr>
<td>BUS 2257</td>
<td>Accounting &amp; Business Analysis</td>
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| Year 3: HBA 1 |                                                                                             |

<table>
<thead>
<tr>
<th>Year 4</th>
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<table>
<thead>
<tr>
<th>Term A</th>
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</thead>
<tbody>
<tr>
<td>AM 3415A</td>
<td>Applied Mathematics for Electrical Engineering II</td>
</tr>
<tr>
<td>ECE 3330A</td>
<td>Control Systems</td>
</tr>
<tr>
<td>ECE 3332A</td>
<td>Electric Machines</td>
</tr>
<tr>
<td>ECE 3337A</td>
<td>Electronic Circuits</td>
</tr>
<tr>
<td>SS 2141A</td>
<td>Applied Statistics and Data Analysis</td>
</tr>
<tr>
<td>BUS 4569</td>
<td>Ivey Field Project</td>
</tr>
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<table>
<thead>
<tr>
<th>Term B</th>
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</thead>
<tbody>
<tr>
<td>ECE 3331B</td>
<td>Introduction to Signal Processing</td>
</tr>
<tr>
<td>ECE 3336B</td>
<td>Electromagnetic Theory</td>
</tr>
<tr>
<td>ECE 3370B</td>
<td>Communication Electronics I</td>
</tr>
<tr>
<td>ECE 3375B</td>
<td>Microprocessors and Microcomputers</td>
</tr>
<tr>
<td>ECE 3399B</td>
<td>Principles and Practices of Design of Electronic Systems</td>
</tr>
<tr>
<td>BUS 4569</td>
<td>Ivey Field Project</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Year 5</th>
<th></th>
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<table>
<thead>
<tr>
<th>Term A</th>
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</thead>
<tbody>
<tr>
<td>ECE 4416</td>
<td>Electrical/Computer Engineering Project</td>
</tr>
<tr>
<td>ECE 4429A</td>
<td>Advanced Digital Signal Processing</td>
</tr>
<tr>
<td>ECE 4437A</td>
<td>Communications Theory</td>
</tr>
<tr>
<td>One 0.5-credit technical elective</td>
<td></td>
</tr>
<tr>
<td>1.5 HBA required courses</td>
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</table>

<table>
<thead>
<tr>
<th>Term B</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>ECE 4416</td>
<td>Electrical/Computer Engineering Project</td>
</tr>
<tr>
<td>ES 4498G</td>
<td>Engineering Ethics, Sustainable Development &amp; the Law</td>
</tr>
<tr>
<td>Three 0.5-credit Business electives from 4000 level Business courses</td>
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<table>
<thead>
<tr>
<th>Technical Electives</th>
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</table>

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 Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 3349A/B</td>
<td>Introduction of VLSI</td>
</tr>
<tr>
<td>ECE 4430A/B</td>
<td>Selected Topics in Electrical Engineering I</td>
</tr>
<tr>
<td>ECE 4431A/B</td>
<td>Selected Topics in Electrical Engineering II</td>
</tr>
<tr>
<td>ECE 4432A/B</td>
<td>Radiation and Propagation</td>
</tr>
<tr>
<td>ECE 4433A/B</td>
<td>Digital Communications Systems</td>
</tr>
<tr>
<td>ECE 4438A/B</td>
<td>Advanced Image Processing &amp; Analysis</td>
</tr>
<tr>
<td>ECE 4439A/B</td>
<td>Conventional, Renewable &amp; Nuclear Energy</td>
</tr>
<tr>
<td>ECE 4445A/B</td>
<td>Introduction to Digital Image Processing</td>
</tr>
<tr>
<td>ECE 4451A/B</td>
<td>Advanced Topics in Wireless Communications</td>
</tr>
<tr>
<td>ECE 4455A/B</td>
<td>Biomedical Systems Analysis</td>
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<tr>
<td>ECE 4456A/B</td>
<td>Power Systems Protection</td>
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<tr>
<td>ECE 4457A/B</td>
<td>Power Electronics</td>
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<tr>
<td>ECE 4460A/B</td>
<td>Real-Time and Embedded Systems</td>
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<tr>
<td>ECE 4464A/B</td>
<td>Electric Power Systems II</td>
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<tr>
<td>ECE 4468A/B</td>
<td>Systems Optimization</td>
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<tr>
<td>ECE 4469A/B</td>
<td>Applied Control Systems</td>
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<tr>
<td>MME 4452A/B</td>
<td>Robotics and Manufacturing Automation</td>
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<tr>
<td>MME 4473A/B</td>
<td>Computer Integrated Manufacturing</td>
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<tr>
<td>MME 4482A/B</td>
<td>Fundamentals of MEMS</td>
</tr>
<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)