# Electrical Engineering (Option A)

**September 2022** *(for students who entered first year in September 2020)*

<table>
<thead>
<tr>
<th>Year</th>
<th>Term A</th>
<th>NOTES:</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>NMM 2270A Applied Mathematics for Engineering II</td>
<td>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.</td>
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<tr>
<td></td>
<td>CS 1027A Computer Science Fundamentals II</td>
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<tr>
<td></td>
<td>ECE 2205A Electric Circuits I</td>
<td></td>
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<tr>
<td></td>
<td>ECE 2277A Digital Logic Systems</td>
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<td></td>
<td>ECE 2240A Electrical Laboratory</td>
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<td></td>
<td>Writ 2130F Building Better (Communication) Bridges: Rhetoric &amp; Professional Communication for Engineers</td>
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<td>Term B</td>
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<tr>
<td></td>
<td>ECE 2231B Introduction to Electronics</td>
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<tr>
<td></td>
<td>ECE 2233B Circuits and Systems</td>
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<td></td>
<td>ECE 2236B Magnetic Circuits and Transmission Lines</td>
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<td>ECE 2242B Principles of Design in Electrical Engineering</td>
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<td>MME 2234B Heat Transfer and Dynamics</td>
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<td>3</td>
<td>Year 3</td>
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<tr>
<td></td>
<td>NMM 3415A Applied Math for Electrical Engineering</td>
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<td></td>
<td>ECE 3330A Control Systems</td>
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<td>ECE 3332A Electric Machines</td>
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<td>ECE 3337A Electronic Circuits</td>
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<td>SS 2141A Applied Probability and Statistics for Engineers</td>
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<td></td>
<td>One 0.5-credit non-technical elective from approved list (either term)</td>
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<td></td>
<td>ECE 3331B Introduction to Signal Processing</td>
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<td>ECE 3333B Electric Power Systems I</td>
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<td>ECE 3336B Electromagnetic Theory</td>
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<td>ECE 3370B Communication Electronics I</td>
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<td>ECE 3375B Microprocessors and Microcomputers</td>
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<td>ECE 3399B Principles and Practices of Design of Electronic Systems</td>
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<td>4</td>
<td>Year 4</td>
<td>Technical Electives Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</td>
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<td>Term A</td>
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<td>ECE 4416 Electrical/Computer Engineering Project</td>
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<td>ECE 4429A Advanced Digital Signal Processing</td>
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<td>ECE 4437A Communications Theory</td>
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<td>Two 0.5-credit technical electives</td>
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<td>ECE 4416 Electrical/Computer Engineering Project</td>
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<td>ECI 4110G Engineering Ethics, Sustainable Development &amp; the Law</td>
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<td>One 0.5-credit non-technical elective from approved list</td>
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<td>Three 0.5-credit technical electives</td>
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