## Electrical Engineering: Power Systems (Option E)
### September 2017 (students who entered first year prior to 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-course non-technical elective from the approved list (either a or b term)

#### 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

### Year 4:
#### Term A
- Bus 2299e  Business for Engineers
- ECE 4416  Electrical/Computer Engineering Project
- ECE 4429a  Advanced Digital Signal Processing
- ECE 4437a  Communications Theory
- ECE 4457a  Power Electronics
- ECE 4464a  Electric Power Systems II

#### Term B
- Bus 2299e  Business for Engineers
- ECE 4416  Electrical/Computer Engineering Project
- ECE 4439b  Convent. Renewable & Nuclear Energy
- ECE 4456b  Power Systems Protection
- ES 4498g  Engineering Ethics, Sustainable Development and the Law
- One 0.5 technical elective from the approved list

### NOTES:

#### Technical Elective List:
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 Title</th>
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<tbody>
<tr>
<td>ECE 3349a/b</td>
<td>Introduction of VLSI</td>
</tr>
<tr>
<td>ECE 3380a/b</td>
<td>Advanced Digital Systems</td>
</tr>
<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. 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 4436a/b</td>
<td>Networking: Principles, Protocols and Architecture</td>
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<tr>
<td>ECE 4438a/b</td>
<td>Adv. Image Processing &amp; Analysis</td>
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<tr>
<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 Communications</td>
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<tr>
<td>ECE 4455a/b</td>
<td>Biomedical Systems Analysis</td>
</tr>
<tr>
<td>ECE 4460a/b</td>
<td>Real-Time and Embedded Systems</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 Manu. Automation</td>
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<tr>
<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>
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