Electric Power Systems Engineering (MS): Wide Bandgap Power Electronics Concentration

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td></td>
<td>Core Curriculum</td>
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<tr>
<td>ECE 534</td>
<td>Power Electronics</td>
<td></td>
<td>18</td>
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<td>ECE 553</td>
<td>Semiconductor Power Devices</td>
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<tr>
<td>ECE 592</td>
<td>Special Topics In Electrical Engineering</td>
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<td>ECE 583</td>
<td>Electric Power Engineering Practicum I</td>
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<tr>
<td>ECE 792</td>
<td>Special Topics In Electrical Engineering</td>
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<tr>
<td>ECE 584</td>
<td>Electric Power Engineering Practicum II</td>
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<tr>
<td>or ECE 592</td>
<td>Special Topics In Electrical Engineering</td>
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**Wide Band Gap Concentration** 12

Select twelve credit hours of the following courses:

- ECE 511 Analog Electronics
- ECE 516 System Control Engineering
- ECE 533 Power Electronics Design & Packaging
- ECE 536 Digital Control System Projects
- ECE 552 Renewable Electric Energy Systems
- ECE 554 Electric Motor Drives
- ECE 561 Embedded System Design
- ECE 732 Dynamics and Control of Electric Machines

Total Hours 30

### Faculty

**Full Professors**

- Mesut E. Baran
- Subhashish Bhattacharya
- Aranya Chakrabortty
- Robert Wendell Heath
- Iqbal Husain
- Ning Lu
- Srdjan M. Lukic
- Daryoosh Vashaee
- John Victor Veliadis
- Wenyue Wang
- Jonathan Wierer

**Associate Professors**

- Zeljko Pantic
- Nuria Gonzalez Prelcic
- Nitin Sharma

**Assistant Professors**

- Amay Jairaj Bandodkar
- Spyridon Pavlidis
- Wenyuan Tang
Practice/Research/Teaching Professors
Douglas C. Hopkins
David Lee Lubkeman
Leonard Wilson White
Wensong Yu