**Department of Electrical Engineering and Computer Science**  
**Electrical- Power & Energy Systems Concentration Catalog 2018**

### Fall
- **15 hours**
  - Math 141 or 147 (4) FA, SP, SU  
  - EF 151 or 157 (4) FA, SP, SU  
  - CS 102 (4) FA, SP, SU  
  - English 101/108 or 198 or 131 (3) FA, SP, SU  
  - EF 151 or 157 (4) FA, SP, SU  
  - CS 102 (4) FA, SP, SU  
  - English 101/108 or 198 or 131 (3) FA, SP, SU  
  
### Spring
- **15 hours**
  - Math 142 or 148 (4) FA, SP, SU  
  - EF 152 or 158 (4) FA, SP, SU  
  - CS 130 (4) FA, SP, SU  
  - English 102 or 290 or 132 (3) FA, SP, SU  
  - EF 151 or 157 (4) FA, SP, SU  
  - CS 102 (4) FA, SP, SU  
  - English 101/108 or 198 or 131 (3) ESL

### Fall
- **16 hours**
  - Math 231 or 237 (3) FA, SP, SU  
  - ECE 255 (3) FA, SP, SU  
  - Physics 231 (3) FA, SP, SU  
  - Chem 120 or 128 (4) FA, SP, SU  
  - ECE 201 (3) FA, SP, SU  
  - EF 151 or 157 (4) FA, SP, SU  
  - EF 152/158 (4) FA, SP, SU  

### Spring
- **17 hours**
  - Math 241 or 247 (4) FA, SP, SU  
  - Math 251 or 257 (3) FA, SP, SU  
  - Physics 232 (4) SP, SU  
  - ECE 313 or 317 (3) FA, SP, SU  
  - Math 231 or 247 (3) FA, SP, SU  
  - ECE 202 (3) FA, SP, SU  

### Fall
- **16 hours**
  - ECE 315 (3) FA, SP, SU  
  - ECE 325 (3) FA, SP, SU  
  - ECE 335 (3) FA, SP, SU  
  - ECE 341 or 347 (3) FA, SP, SU  
  - ECE 395 (1) FA, SP, SU  
  - Gen. Ed. (3) FA, SP, SU  

### Spring
- **15 hours**
  - ECE 316 (3) FA, SP, SU  
  - ECE 336 (3) FA, SP, SU  
  - ECE 342 (3) FA, SP, SU  
  - Gen. Ed. (3) FA, SP, SU  
  - Social Science  
  - Arts & Humanities

### Fall
- **17 hours**
  - ECE Sr. Elective (3) FA, SP  
  - ECE Sr. Elective (3) FA, SP  
  - Power Elective(3) FA, SP  
  - Power Elective(3) FA, SP  
  - Gen. Ed. (3) FA, SP, SU  
  - Gen. Ed. (3) FA, SP, SU  

### Spring
- **16 hours**
  - Economic, Entrepreneurship  
  - Innovation Elective (3) FA, SP  
  - Tech. Elective(3) FA, SP  
  - Power Elective(3) FA, SP  
  - Gen. Ed. (3) FA, SP, SU  
  - Gen. Ed. (3) FA, SP, SU  

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**Senior ECE electives**: Choose 6 credit hours of ECE senior elective with Advisor's consent. Up to 2 COSC 5XX or ECE 5XX courses may count as upper division electives. Acceptable senior electives are ECE 4XX courses that are not otherwise required for the degree.

**Power & Energy System Electives**: ECE 415, ECE 421, ECE 422, ECE 481, ECE 482, ECE 521, ECE 522, ECE 523, ECE 525.

**Technical Electives**: COSC 140, COSC 311 or MATH 300, COSC 370; CHEM 130/138; IE 405; MSE 201/207, MSE 410; ME 231, ME 321, ME 331; NE 342 or NE 347.

**Economic, Entrepreneurship, and Innovation Elective**: Choose from IE 405, IE 457 (or ME 457), IE 518, IE 557 (or ME 519) MGT 552, or MGT 560.

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**Progression**

The department requires at least a C in every computer engineering, computer science, electrical engineering, and mathematics course used for the undergraduate degrees. ECE 201 requires a C or better in EF 152/158 and Math 142/148.

Progression of departmental undergraduate students to the upper-division programs of the department is competitive and is based on the space available in the department. Factors considered in the decision include overall grade point average, grades earned in courses required in the lower division curricula of the department and College of Engineering, and seriousness of purpose and interest in departmental programs as exemplified by regular and orderly progress through the prescribed curriculum without abuse of withdrawal and course repeat privileges.

Students who take ECE 300 (now ECE 201-202) will be evaluated during the semester they are registered for it. Transfer students for whom ECE 300 (now ECE 201-202) transfer credit is given may take 9 semester hours in departmental courses before progression evaluation. All students, whether or not they transfer in, who are not accepted into the upper-division program of the department will be put in either a temporary probationary status or a non-progressed status and will not be permitted to register for any upper division courses within the department.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

**UTRACK Milestones:**

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
<th>Term 4</th>
<th>Term 5</th>
<th>Term 6 through 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 130 or higher or one AH or one CC</td>
<td>Math 130 or higher</td>
<td>EF 151/157 or Physics 130/137</td>
<td>EF 152/158 or Physics 136/138</td>
<td>ME 202 or CS 102 or MSE 201 or CBE 201</td>
<td>No Milestones</td>
</tr>
</tbody>
</table>