## Department of Electrical Engineering and Computer Science
### Electrical Engineering Catalog 2015

**Fall**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
</table>
| 15 | Math 141 or 147 (4) FA, SP, SU  
Prereq: Math 130 or Math 28 ACT or Math 630 SAT  
Math 101 or 118 (3) FA, SP  
Prereq: Math 141 or 147  
Prereq: EF 151 or 157 (4) FA, SP  
Prereq: CS 102 (4) FA, SP  
Prereq: CS 102 |
| 15 | EF 151 or 157 (4) FA, SP  
Prereq: Math 141 or 147 and EF 105 or CS 102  
CS 102 (4) FA, SP  
Prereq: EF 151 or 157  
Prereq: CS 102 (formerly CS 160)  
Prereq: English 101 (3) FA, SP, SU  
Prereq: English 101 or 118 |

**Spring**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
</table>
| 16 | Math 231 (3) FA, SP, SU  
Prereq: Math 142 or 148  
Prereq: EF 152 or 158 (4) FA, SP  
Prereq: CS 130 (4) FA, SP  
Prereq: Math 142 or 148  
Prereq: EF 152 or 158 |
| 15 | Math 231 (3) FA, SP, SU  
Prereq: Math 142 or 148  
Prereq: EF 152 or 158 (4) FA, SP  
Prereq: CS 130 (4) FA, SP  
Prereq: Math 142 or 148  
Prereq: EF 152 or 158 |

**Fall**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
</table>
| 16 | ECE 315 (3) FA, SU  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  |
| 15 | ECE 315 (3) FA, SU  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  
Prereq: ECE 202  |

**Spring**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
</table>
| 17 | ECE Sr. Elective *(3) FA, SP, SU  
Senior Elective  
Senior Elective  
Senior Elective  
Senior Elective  
Senior Elective |
| 15 | ECE Sr. Elective *(3) FA, SP, SU  
Senior Elective  
Senior Elective  
Senior Elective  
Senior Elective  
Senior Elective |

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*Acceptable Senior Electrical and Computer Engineering courses: Choose 12 credit hours of ECE senior electives with Faculty Advisor’s consent. Up to 2 COSC 5XX or ECE 5XX courses may count as upper division electives. Acceptable ECE senior electives are ECE 4XX courses that are not otherwise required for the degree.*

**Technical Electives:**  
- Computer Science 140, 311 or Math 300, CS 370, Chemistry 130 or 138, Industrial 400, Materials Science and Engineering 201, 410, Mechanical Engineering 231, 321, 331, 344, Nuclear Engineering 342 or 347.

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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. Students taking ECE 201 must also have a C or better in EF 152 or 158.

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</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Math 130 or higher or one SS or one AH or one CC</td>
</tr>
<tr>
<td>2</td>
<td>Math 130 or Higher</td>
</tr>
</tbody>
</table>
| 3    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |
| 4    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |
| 5    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |
| 6    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |
| 7    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |
| 8    | Math 130 or Higher  
EF 151/157 or Physics 135/137  
Math 130 or Higher  
EF 152/158 or Physics 136/138  
Math 130 or Higher  
ME 202 or CSE 102 or MSE 201 |

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*Senior Elective: Senior Electric, Senior Elective*