Department of Electrical Engineering and Computer Science
Electrical Engineering Catalog 2014

**Fall**
15 hours
- Math 141 or 147 (4) FA, SP
  - Prereq- Math 130 or Math 28 ACT or Math 630 SAT
- EF 151 or 157 (4) FA, SP
  - Prereq- Math 141 or 147 and EF 105 or CS 102
- CS 102 (4) FA, SP
  - Prereq- English 101 or 118
- English 101 or 118 (3) FA, SP, SU

**Spring**
15 hours
- Math 142 or 148 (4) FA, SP
  - Prereq- Math 141 or 147
- EF 152 or 158 (4) FA, SP
  - Prereq- CS 102
- CS 160 (4) FA, SP
  - Prereq- English 101 or 118

**Fall**
16 hours
- Math 231 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- EF 235 (3) FA, SP, SU
  - Prereq- CS 160
- Physics 231 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- ECE 201 (3) FA, SP
  - Prereq- EF 152/158 and Math 142/148

**Spring**
17 hours
- Math 241 or 247 (4) FA, SP, SU
  - Prereq- Math 142 or 148
- EF 252 or 258 (4) FA, SP
  - Prereq- CS 102
- CS 160 (4) FA, SP
  - Prereq- English 101 or 118

**Fall**
16 hours
- Math 231 or 238 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- ECE 235 (3) FA, SP, SU
  - Prereq- CS 160
- Physics 231 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- ECE 201 (3) FA, SP
  - Prereq- EF 152/158 and Math 142/148

**Spring**
17 hours
- Math 241 or 247 (4) FA, SP, SU
  - Prereq- Math 142 or 148
- EF 252 or 258 (4) FA, SP
  - Prereq- CS 102
- CS 160 (4) FA, SP
  - Prereq- English 101 or 118

**Fall**
16 hours
- Math 231 (3) FA, SU
  - Prereq- ECE 300 or 202
- ECE 235 (3) FA, SP
  - Prereq- ECE 300 or 202
- Physics 231 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- ECE 201 or 202 (3) FA, SP
  - Prereq- ECE 300 or ECE 202

**Spring**
15 hours
- Math 231 or 238 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- ECE 235 (3) FA, SP
  - Prereq- ECE 300 or 202
- Physics 231 (3) FA, SP, SU
  - Prereq- Math 142 or 148
- Gen. Ed. (3) FA, SP, SU
  - Arts & Humanities

**Fall**
17 hours
- ECE Sr. Elective *(3) FA, SP, SU
  - Petition required in advance
- ECE Sr. Elective *(3) FA, SP, SU
  - Petition required in advance
- ECE Sr. Elective *(3) FA, SP, SU
  - Petition required in advance
- ECE Sr. Elective *(3) FA, SP, SU
  - Petition required in advance
- Gen. Ed. (3) FA, SP, SU
  - Cultures and Civilizations

**Spring**
15 hours
- ECE Sr. Elective *(3) FA, SP, SU
  - Petition required in advance
- Tech. Elective** *(3) FA, SP, SU
  - Petition required in advance
- Tech. Elective** *(3) FA, SP, SU
  - Petition required in advance
- ECE 402 (OC&W) (3) SP
  - Prereq- ECE 401

*Acceptable Senior Electrical and Computer Engineering courses: Choose four (4) Electrical Engineering Senior electives with faculty advisor’s consent. Up to two (2) Computer Science 5xx or Electrical Computer Engineering 5xx may count as upper-division electives.

**Technical Electives:** Computer Science 140, 311 or Math 355, 370; Chemistry 130 or 138; Industrial 405; Materials Science and Engineering 201, 410; Mechanical Engineering 231, 321, 331, 344; Nuclear Engineering 342 or 347.

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:**

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<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>
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</thead>
<tbody>
<tr>
<td>Math 130 or higher or one SS or one AH or one CC</td>
<td>Math 130 or Higher</td>
<td>EF 151/157 or Physics 136/137</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>
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