### Department of Electrical Engineering and Computer Science
#### Computer Engineering Catalog 2019

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
</table>
| **Fall** 15 hours | Math 141 or 147 (4) FA, SP, SU  
Prereq- Math 130 or Math ACT 28  
or Math SAT 630  
Coreq- Math 141 or 147 and  
ENGL 102 or 112  
Coreq- Math 141 or 147  
English 101/110 or 198 or 131 (3) FA, SP, SU  
101 Regular; 118 Honors; 198 Chancellor Honors Only;  
131 English as Second Language |

| **Spring** 15 hours | Math 142 or 146 (4) FA, SP, SU  
Prereq- Math 141 or 147  
Coreq- Math 141 or 147 and  
ENGL 132 or ESOL 131  
Coreq- Math 141 or 147  
Coreq- Math 141 or 147  
English 101 or 290 or 132 (3) FA, SP, SU  
102 Prereq 101 or 118;  
290 Prereq AP 101 credit  
132 Prereq 131 ESL |

| **Fall** 16 hours | Math 231 or 237 (3) FA, SP, SU  
Prereq- Math 142 or 148  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
Physics 231 (3) FA, SP, SU  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
ECE 201 (3) FA, SP  
Prereq- Math 116 recommended background Math 130 |

| **Spring** 17 hours | Math 241 or 247 (4) FA, SP, SU  
Prereq- Math 142 or 148  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
ECE 302 (3) FA, SP, SU  
Prereq- ECE 201  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
ECE 295 (3) FA, SP  
Prereq- Math 116 recommended background Math 130 |

| **Fall** 17 hours | ECE 351 or 357 (3) FA, SP  
Prereq- ECE 202  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
ECE 395 (1) FA, SP  
Prereq- ECO 202  
Gen. Ed. (1-3) FA, SP, SU  
Cultures and Civilizations |

| **Spring** 15 hours | ECE 401 (2) FA  
Prereq- ECE 315 or 361  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
ECE 395 (1) FA, SP  
Prereq- ECO 202  
Gen. Ed. (1-3) FA, SP, SU  
Cultures and Civilizations |

| **Fall** 17 hours | ECE 402 (CC or WG) (3) SP  
Prereq- ECE 401 or ENG 101, 112, 113, 120, 206  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
ECE 395 (1) FA, SP  
Prereq- ECO 202  
Gen. Ed. (1-3) FA, SP, SU  
Cultures and Civilizations |

| **Spring** 15 hours | ECE 402 (CC or WG) (3) SP  
Prereq- ECE 401 or ENG 101, 112, 113, 120, 206  
Coreq- Math 142 or 148  
Coreq- Math 130 (formerly CS 160)  
Coreq- Math 142 or 148  
ECE 395 (1) FA, SP  
Prereq- ECO 202  
Gen. Ed. (1-3) FA, SP, SU  
Cultures and Civilizations |

**Beginning students who have had high school computer science and/or who have had significant programming experience (e.g. summer institute study, special research projects, home laboratory) are invited to apply during the summer to the head of the EECS department for permission to take a proficiency exam for COSC 102. The EECS department also gives credit in COSC 102 to students who receive a score of 5 on the computer science AP Exam.**

**Core electives, you must choose 2 courses from within the following list: COSC 340, COSC 361, COSC 366, ECE 433, ECE 493, ECE 495. Other courses not currently listed may count as core electives only with departmental approval. 500 level courses are mentioned as suggestions to students admitted into the Five Year BA/MS program. Up to 2 (two) COSC 5XX or ECE 5XX courses may count as core and/or senior electives.**

**Senior Electives, you choose 9 credit hours of computer engineering senior electives with your advisor’s consent. Acceptable senior electives are ECE 4XX and COSC 4XX courses that are not otherwise required. 500 level courses are mentioned as suggestions to students admitted into the Five Year BA/MS program. Up to 2 (two) COSC 5XX or ECE 5XX courses may count as core and/or senior electives.**

**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 ENGL 101 or 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 (ECE 201-202) will be evaluated during the semester they are registered for it. Transfer students for whom ECE 300 (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.