### Department of Electrical Engineering and Computer Science

#### Computer Engineering Catalog 2022

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 hours</th>
<th>Prereq: Math 141 or 147 or ACT Math 28 or SAT Math 660</th>
<th>COSC 101* (3) FA, SP</th>
<th>English 101/118 or 131 or (3) FA, SP, SU</th>
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<td>Coreq: Math 122/141/147 or higher or and EF 105 or CS 101 or CS 102</td>
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### Notes

- Beginning students who have had high school computer science and/or who have had significant programming experience (e.g., summer institute, 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 101. The EECS department also gives credit in COSC 101 to students who receive a score of 3 or better on the Computer Science A AP Exam.
- Core electives, you must choose 2 courses from within the following list: COSC 340, COSC 361, COSC 366, ECE 433, ECE 453, ECE 455. Other courses not currently listed may count as core electives only with departmental approval.
- **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, with exception of COSC 422 that is not allowed.**
- 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 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 also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

**Volunteer Core courses highlighted in light orange.