Department of Electrical Engineering and Computer Science Computer Engineering Catalog 2022 Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU EF 142 or 151 or 157 (4) (EI) FA, SP COSC 101* (3) FA, SP English 101/118 or 198 or 131 (3) FA, SP, SU Coreq- Math 132/141/147 or higher 14 hours Prereq- Math 141 is ACT Math 28 or SAT Math 660 101 Regular; 118 Honors; 198 Chancellor Honors Only; Prereg-Math 132 is Math 131; C or better grades and EF 105 or CS 101 or CS 102 131 English as Second Language Spring Math 142 or 148 (4) (QR) FA, SP, SU F 152 or 158 (4) (El and NS) FA, SP, SU COSC 102 (4) FA, SP, SU English 102 or 290 or 298 or 132 (3) FA, SP, SU 15 hours rereq- Math 132 or 141 or 147 with C or better rereq-EF 142/151/157 with C or higher Prereq- COSC 101 with C or better 102 Prereq 101 or 118; 290 Prereq AP 101 credit Coreg- Math 142 or 148 with C or higher Coreg- Math 132 or 141 or 147 with C or bette 298 Prereg Chancellor Honors only & 198; 132 Prereg 131 ESL Fall Math 231 or 237 (3) FA, SP, SU ECE 201 (3) FA, SP COSC 202 (4) FA, SP Physics 231 (3) FA, SP, SU ECE 255 (3) FA, SP Prereq- Math 142 or 148 grade of C or rereq- EF 152/158 and Math 142/148 grades C Prereq- COSC 102 with grade of C or better Prereq- Phys 135 or EF151 and 152 Prereq- COSC 102 with grade of C or 16 hours better, consent of Assoc. Dept. Head Coreq- Math 142 or 148 etter Math 241 or 247 (4) FA, SP, SU ECE 202 (3) FA,SP, SU Math 251 or 257 (3) FA, SP, SU ECE 256 (3) FA, SP Chem 122 (3) and 123(1) or 128 (4) (NS) FA, SP, SU Spring Prereg- Math 142 or 148 grade of C or ereq- ECE 201 with grade of C or better Prereq- Math 142 or 148 grade of C or Prereq-ECE 255 with grade of 17 hours Prereg-Math 119; recommended ackground in Math 131 or better Fall ECE 351 or 357 (3) FA, SP ECE 335 (3) FA, SP COSC 302 or 307 (4) FA, SP ECE 313 or 317 (3) FA, SP ECE 395 (1) (WC) FA, SP Vol Core (3) FA, SP, SU Prereg- Math 142 or 148 with Global Citizenship United States (GCUS) 17 hours rereq-ECE 255 with grade of C or better rereg- ECE 202 with grade of C or better Prereq- COSC 202 with grade of C or better Prereq- ECE 202 with grade of C or etter and English 102, 132, 290 or 298 rade of C or better ECE 315 (3) FA, SP COSC 311 or 317 (3) FA, SP COSC 360 or 367 (4) FA, SP ECE 356 or 358 (3) FA, SP Vol Core (3) FA, SP, SU Spring 16 hours rereq- ECE 202 with grade of C or better rereq- COSC 202 and Math 142 or 148 with Prereq- COSC 302 or 307 with C or better; and Prereq-ECE 256 or COSC 230 Arts and Humanities (AH) rades of C or better COSC 230 or ECE 256 with C or better with grade of C or better Fall CE 401 (2) (OC) FA Core Elective (3) FA, SP* Senior Elective (3) FA, SP*** Senior Elective (3) FA, SP Vol Core (3) FA, SP, SU Vol Core (3) FA, SP, SU

Vol Core (3) FA, SP, SU

Global Citizenship International (GCI)

Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS

Expanded Perspectives- choose from

Vol Core (3) FA, SP, SU

AH, AAH, GCUS, GCI, or SS

Social Science (SS)

Vol Core (0-3) (EI)*** FA, SP, SU

Engaged Inquiry (FI) students will try to overlap

with Expanded Perspectives AND Engaged Inquiry

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 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 PE 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. 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, 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

17 hours

Spring

15-18 hours

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.

Senior Elective (3) FA, SP, SU ***

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.

Core Elective (3) FA, SP, SU **

Volunteer Core courses highlighted in light orange.

Prereg- FCF 315 or 351 or 357 with

Prereg- FCF 401: FNGI 102, 132, 290, 298

grades of C or better

ECE 402 (3) (AOC) SP

with grades of C or better