Department of Electrical Engineering and Computer Science Computer Engineering Catalog 2024 Fall 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 or 131 (3) FA, SP, SU 14 hours Math 132 Prereq- Math 131 EF 142 Prereq- EF 141 with C- or better and Math 131 101 Standard Math 141 Prereq- ACT Math 28 or SAT Math 660 FF 142 Coreg- Math 132 131 English as Second Language F 151 Coreq- 141/147 or higher and EF 105 or COSC 101 or CS 102 EF 152 or 158 (4) (El and NS) FA, SP, SU Spring lath 142 or 148 (4) (QR) FA, SP, SU COSC 102 (4) FA, SP, SU English 102 or 112 or 298 or 132 (3) FA, SP, SU rereq- Math 132 or 141 or 147 with C or better Prereg- COSC 101 with C or better 15 hours Prereg-FF 142/151/157 with C or higher 102 Prereg 101; 112 Prereg is AP 101 and Test Scores: Coreq- Math 142 or 148 with C or higher coreq- Math 132 or 141 or 147 with C or be 298 Prereq University Honors only; 132 Prereq 131 ESL 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 Fall Prereq- EF 152/158 and Math 142/148 grades C 16 hours Prereq- Math 142 or 148 grade of C or Prereq- COSC 102 with grade of C or better Prereq- Phys 135 or EF151 and 152 Prereq- COSC 102 with grade of C or or better, consent of Assoc. Dept. Head reg- Math 142 or 148 lath 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 hem 122 (3) and 123(1) or 128 (4) (NS) FA, SP, SU Spring Prereq- ECE 201 with grade of C or better Prereq-ECE 255 with grade of rereg- Math 142 or 148 grade of C or Prereg- Math 142 or 148 grade of C or 17 hours Prereg-Math 119: recommended ackground in Math 131 /ol Core (3) FA, SP. SU 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 Global Citizenship United States (GCUS) rereq- ECE 202 with grade of C or 17 hours ereq-ECE 255 with grade of C or better erea- ECE 202 with grade of C or better rereq- COSC 202 with grade of C or better Prereg- Math 142 or 148 with arade of C or better etter and English 102, 132, 290 or 298 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 rereq- ECE 202 with grade of C or better Prereq- COSC 202 and Math 142 or 148 with Prereq- COSC 302 or 307 with C or better; an Prereq-ECE 256 or COSC 230 Arts and Humanities (AH) 16 hours with grade of C or better rades of C or bette COSC 230 or ECE 256 with C or better Core Elective (3) FA, SP* Senior Elective (3) FA, SP*** Senior Elective (3) FA, SP Vol Core (3) FA, SP, SU /ol Core (3) FA, SP, SU Fall CE 401 (2) (OC) FA Prereq- ECE 315 or 351 or 357 with Expanded Perspectives- choose from 17 hours ocial Science (SS) grades of C or better AH, AAH, GCUS, GCI, or SS ECE 402 (3) (AOC) SP Senior Elective (3) FA, SP, SU *** Vol Core (3) FA, SP, SU Vol Core (3) FA, SP, SU Spring Core Elective (3) FA, SP, SU ** Prereq- ECE 401; ENGL 102, 112, 132, 298 Expanded Perspectives- choose from ingaged Inquiry (EI) students will try to overlap

AH, AAH, GCUS, GCI, or SS

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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) should apply during the summer to the head of the EEOS department for permission to take a proficiency exam for COSC 101. If satisfactory grade is earned, credit will be allowed for COSC 101 allowing the student to begin in COSC 102 their first term.

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.

For student who lack these experiences, they should take COSC 101 first term, pushing back courses indicated.

***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 BAMS 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 EF 152/158 and 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 required and orderly recognized to the order to depart unclaused to the department and course recent programs.

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.

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