	Department of Electrical Engineering and Computer Science Computer Engineering Catalog 2025					
Fall 14 hours	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU Math 132 Prereq- Math 131 Math 141 Prereq- ACT Math 28 or SAT Math 660	EF 142 or 151 or 157 (4) (E) FA, SP EF 142 Prerce, EF 141 with C- or better and Math 131 EF 142 Coree,- Math 132 EF 151 Core,- 1411/47 or higher and EECS majors COSC 101/102	COSC 101 <sup>+</sup> (3) FA, SP	English 101 or 131 (3) FA, SP, SU 101 Slandard; 131 English as Second Language		
hours	Math 142 or 148 (4) (QR) FA, SP, SU Prereq- Math 132 or 141 or 147 with C or better	EF 152 or 158 (4) (El and NS) FA, SP, SU Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148 and EF 105 or COSC 101 or 102	COSC 102 (4) FA, SP, SU Prereq- COSC 101 with C or better Coreq- Math 132 or 141 or 147 with C or better	English 102 or 112 or 298 or 132 (3) FA, SP, SU 102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL		
all 6 hours	Math 231 or 237 (3) FA, SP, SU Prereq- Math 142 or 148 grade of C or better	ECE 201 (3) FA, SP Prever, EF 152/158 and Math 142/148 grades C or better, consent of Assoc. Dept. Head	COSC 202 (4) FA, SP Prereq- COSC 102 with grade of C or better	Physics 231 (3) FA, SP, SU Prereq- Phys 135 or EF151 and 152 Coreq- Math 142 or 148	ECE 255 (3) FA, SP Prereq- COSC 102 with grade of C or better	
Spring 17 hours	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148 grade of C or better	ECE 202 (3) FA,SP, SU Prereq- ECE 201 with grade of C or better	Math 251 or 257 (3) FA, SP, SU Prereq- Math 142 or 148 grade of C or better	ECE 256 (3) FA, SP Prereq-ECE 255 with grade of C or better	Chem 122 (3) and 123(1) or 128 (4) (NS) FA, SP, Prereq-Math 119; recommended background in Math 131	SU
all 7 hours	ECE 351 or 357 (3) FA Prereq-ECE 255 with grade of C or better	ECE 335 (3) FA, SP Prereq- ECE 202 with grade of C or better	COSC 302 or 307 (4) FA, SP Prereq- COSC 202 with grade of C or better	ECE 313 or 317 (3) FA, SP Prereq- Math 142 or 148 with grade of C or better	ECE 395 (1) (WC) FA, SP Prereq- ECE 202 with grade of C or better and English 102, 132, 290 or 298	Vol Core (3) FA, SP, SU Global Citizenship United States (GCUS)
pring 3 hours	ECE 315 (3) FA, SP Prereq- ECE 202 with grade of C or better	COSC 311 or 317 (3) FA, SP Prereq- COSC 202 and Math 142 or 148 with grades of C or better	COSC 360 or 367 (4) FA, SP Prereq- COSC 302 or 307 with C or better; and COSC 230 or ECE 256 with C or better	ECE 356 or 358 (3) SP Prereq-ECE 256 or COSC 230 with grade of C or better	Vol Core (3) FA, SP, SU Arts and Humanities (AH)	
<b>II</b> hours	ECE 401 (2) (OC) FA Prereq- ECE 315 or 351 or 357 with grades of C or better	Core Elective (3) FA, SP**	Senior Elective (3) FA, SP***	Senior Elective (3) FA, SP	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Vol Core (3) FA, SP, SU Social Science (SS)
<b>pring</b> 5-18 hours	ECE 402 (3) (AOC) SP Prereq- ECE 401; ENGL 102, 112, 132, 298 with grades of C or better	Core Elective (3) FA, SP, SU **	Senior Elective (3) FA, SP, SU ***	Vol Core (3) FA, SP, SU Global Citizenship International (GCI)	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Vol Core (0-3) (EI)*** FA, SP, SU Engaged Inquiry (EI) 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) should apply during the summer to the

beginning deserved and net of the server of

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.

\*\*\*Serior Electives, you choose 9 credit hours of computer engineering serior 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 corricula of the department and Collego of Engineering, and seriousness of purpose and interest in departmental programs as exemplified by require and orderly progress through the prescribed curviculum without abused of with/award 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.