

**Department of Electrical Engineering and Computer Science
Computer Engineering Catalog 2021**

Fall 14 hours	Math 141 or 147 (4) FA, SP, SU Prereq- Math ACT 28 or Math SAT 660	EF 151 or 157 (4) FA, SP Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	COSC 101* (3) FA, SP	English 101/118 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 148 (4) FA, SP, SU Prereq- Math 132 or 141 or 147 grade of C or better	EF 152 or 158 (4) FA, SP, SU Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148	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 290 or 298 or 132 (3) FA, SP, SU 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL		
Fall 16 hours	Math 231 or 237 (3) FA, SP, SU Prereq- Math 142 or 148 grade of C or better	ECE 201 (3) FA, SP Prereq- 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) FA, SP, SU Prereq-Math 119; recommended background in Math 131	
Fall 17 hours	ECE 351 or 357 (3) FA, SP 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) FA, SP Prereq- ECE 202 with grade of C or better	Gen. Ed. (3) FA, SP, SU Cultures and Civilizations
Spring 16 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) FA, SP Prereq-ECE 256 or COSC 230 with grade of C or better	Gen. Ed. (3) FA, SP, SU Arts and Humanities	
Fall 17 hours	ECE 401 (2) 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	Gen. Ed. (3) FA, SP, SU Arts and Humanities	Gen. Ed. (3) FA, SP, SU Social Science
Spring 15 hours	ECE 402 (OC and WC) (3) SP Prereq- ECE 401; ENGL 102, 132, 290,298 with grades of C or better	Core Elective (3) FA, SP, SU **	Senior Elective (3) FA, SP, SU ***	Gen. Ed. (3) FA, SP, SU Cultures and Civilizations	Gen. Ed. (3) FA, SP, SU Social Science	

*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 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. 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

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 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.