FA23

SP24

Department of Electrical Engineering and Computer Science Computer Engineering Catalog 2022

	Computer Engineering Catalog 2022					
ill	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	
hours		Coreq- Math 132/141/147 or higher	(2), 2.	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	. ,,	
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ring	Math 142 or 148 (4) (QR) FA, SP, SU	EF 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		
hours	Prereq- Math 132 or 141 or 147 with C or better	Prereq-EF 142/151/157 with C or higher	Prereq- COSC 101 with C or better	102 Prereq 101 or 118; 290 Prereq AP 10		
		Coreq- Math 142 or 148 with C or higher	Coreq- Math 132 or 141 or 147 with C or better	e 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL		
1	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	7
16 hours	Prereq- Math 142 or 148 grade of C or	Prereq- 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	
	better	or better, consent of Assoc. Dept. Head		Coreq- Math 142 or 148	better	
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ring	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
17 hours	Prereq- Math 142 or 148 grade of C or	Prereq- ECE 201 with grade of C or better	Prereq- Math 142 or 148 grade of C or	Prereq-ECE 255 with grade of	Prereq-Math 119; recommended	
	better		better	C or better	background in Math 131	
11	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
17 hours	Prereq-ECE 255 with grade of C or better	Prereq- ECE 202 with grade of C or better	Prereq- COSC 202 with grade of C or better	Prereg- Math 142 or 148 with	Prereq- ECE 202 with grade of C or	Global Citizenship United States (GCUS)
	Traceq-EGE 200 with grade of 6 of better	ricicq- Loc 202 with grade of 0 of better	1 Total Good 202 Willinghade of O of Beller	grade of C or better	better and English 102, 132, 290 or 298	Clobal Olizeriship Officed Olates (COCC)
				grade or e or boxes	2010) and English 102, 102, 200 of 200	
ring	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	
16 hours	Prereg- ECE 202 with grade of C or better	Prereg- COSC 202 and Math 142 or 148 with	Prereg- COSC 302 or 307 with C or better; ar		Arts and Humanities (AH)	
	Troing 202 202 man grade of 0 of botto	grades of C or better	COSC 230 or ECE 256 with C or better	with grade of C or better	vito and mananase (vin)	
		3		9		
II	ECE 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
17 hours	Prereq- ECE 315 or 351 or 357 with				Expanded Perspectives- choose from	Social Science (SS)
	grades of C or better				AH, AAH, GCUS, GCI, or SS	
oring	ECE 402 (3) (AOC) SP	Core Elective (3) FA, SP, SU **	Senior Elective (3) FA, SP, SU ***	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU	Vol Core (0-3) (EI)*** FA, SP, SU
	Prereq- ECE 401; ENGL 102, 132, 290,298	20.0 2.00.10 (0) . 7., 0. , 00	50.110. 2.00.110 (5) . A, 01 , 00	Global Citizenship International (GCI)	Expanded Perspectives- choose from	Engaged Inquiry (EI) students will try to overlap
	with grades of C or better			Global Glazonomp International (GGI)	AH, AAH, GCUS, GCI, or SS	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 AP Exam.

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 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.

^{**} 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.