

	_		Software Tra				
		H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3 Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1301
		4 MATH 2413	Calculus I (Core)	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	See General Education Core for more details.
		1 CMPE 110 ⁴	Introduction to Computer Engineering	С			
FALL	:	3 POLS 2305	U.S. Federal Govt & Politics		070		
	:	3 Choose 1	Integrative and Experiential Learning (Core)	090		Complete three credit hours from the approved core curriculum, except PHIL 2326, in addition to the required labs. See degree plan.
TYEAR		UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design				As required, based on credit hours earned, TSI status, High School rank, major declaration.
-IRS	_1	4 Semester Tot	al Hours			For all 040 and the Control of ACT to the TOL	
		3 Choose 1	Communication (Core)	С	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305.
		4 MATH 2414	Calculus II	С		MATH 2413 with a grade of 'C' or better.	
SPRING		3 CSCI 1370	Computer Science I for Majors	С		Grade of 'C' or better in any of the following: MATH 1314, MATH 1414 or placement in a higher level Math course (MATH 2412, MATH 2413) and credit for or concurrent enrollment in CSCI 1101 or CMPE 1101. Co-requisite: CSCI 1170.	
		1 CSCI 1170	Computer Science I Laboratory for Majors	С		Co-requisites: CSCI 1370.	
	.	4 PHYS 2425	Physics for Scientists and Engineers I (Cor	e)	030	MATH 2413 and concurrent enrollment in MATH 2414.	1 hour of lab for Core 090. See General Education Core for more details.
	1	5 Semester Tot	al Hours				
		H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3 MATH 2346	Mathematics for Electrical and Computer Engineers	С		CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 with a grade of 'C' or better.	
		3 CSCI 2380	Computer Science II	С		Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170].	
=		3 Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
FALL	:	3 Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327
		3 CMPE 2330	Digital Systems Engineering I	С		Credit/registration in CMPE 1101, ELEE 1101, or CSCI 1101.	
EAR		1 CMPE 2130	Digital Systems Engineering I Lab	С		Credit/registration for CMPE/ELEE 2330.	
ND Y	_1	6 Semester Tot	al Hours				
SECOI		3 CSCI 3333	Algorithms and Data Structures	С		Grade of C or better in: [CSCI 3310 or MATH 2346 or MATH 2305] and [CSCI 2380 or CMPE 2380].	
		4 PHYS 2426	Physics for Scientists and Engineers II (Co	re)	030	PHYS 2425.	1 hour of lab for Core 090. See General Education Core for more details.
		3 CMPE 2320	Electric Circuits I	С		Grade of 'C' or better in MATH 2414 and CMPE 1101/ELEE 1101 and credit/registration for PHYS 2426.	
NG NG		1 ONDE 0400) Electric Circuits I Lab	С		Credit/registration for CMPE 2320 or ELEE 2305.	
SPRING		1 CMPE 2120		_	070		
SPRING		3 POLS 2306	Texas Government & Politics		070		
SPRING					070	MATH 1314, MATH 1414, MATH 2412, MATH 2413 or with a grade of "C" or higher.	or CHEM 1311
SPRING	:	3 POLS 2306	Chemistry for Engineers				or CHEM 1311 or CHEM 1111

	!	! н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
) YEAR	П	3	CSCI 3340	Software Engineering I	С		Grade of C or better in: [3 advanced hours in CSCI or CMPE] and [CSCI 2380 or CMPE 2380].	
		3	CSCI 2333	Computer Org. and Assembly Language	С		Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170].	
		3	MATH 3341	Differential Equations	С		MATH 2414 with a grade of C or better	
	FALL	3	CSCI 3334	Systems Programming	С		Grade of C or better in: [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437].	
		4	CMPE 3403	Electronics for Computer Engineering	С		[CMPE 2320 or ELEE 2305] and [CMPE 2330 or ELEE 2330] and [ELEE 2105 or CMPE 2120] with a grade of C or better.	
Ĭ		16	Semester Total F					
-		3	CMPE 3331	Microcontroller and Embedded Systems Lab	С		CMPE 3437 or ELEE 3435.	
		3	PHIL 2326	Ethics, Technology, and Society		040		
		3	CSCI 4333	Database Design and Implementation	С		Grade of C or better in: CSCI 3333 or CMPE 3333.	
		3	CSCI 3326 or CSCI 3328	Object Oriented Programming in Java or C #	С		Grade of C or better in: [CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170].	Can also take CMPE 3328: Objective-Oriented Programming in C#
		3	CMPE 4335	Computer Architecture	С		Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380 or CMPE 2388].	
		3		Digital Systems Engineering II	С		Grade of C or better in: CMPE/ELEE 2330 or consent of instructor.	
		18	Semester Total F	lours	Min			
		18 ! н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
						GEC	Prerequisite Math 2414 with a grade of 'C' or better.	Additional Notes
		! Н	Course # CMPE 3343 or	Course Title	Grade	GEC 060	•	Additional Notes See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328.
	FALL	! н	Course # CMPE 3343 or STAT 3337	Course Title Probability and Statistics	Grade		•	See General Education Core for more details.
YFAR	I	! н 3	Course # CMPE 3343 or STAT 3337 Choose 1	Probability and Statistics American History (Core)	Grade C		Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437].	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
LIRTH VEAR	I	! н 3 3 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software	C C		Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
FOLIRTH YFAR	I	! н 3 3 3 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software	C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
FOLIRIH VEAR	I	! н 3 3 3 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F Choose 1	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software Hours Creative Arts (Core)	C C C		Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of instructor.	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one
FOLIRTH VFAR	I	! н 3 3 3 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software	C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of instructor. Grade of C or better in: CSCI 3340 or CMPE 3340.	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
FOLIRTH VEAR	FALL	! н 3 3 3 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F Choose 1	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software Hours Creative Arts (Core)	C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of instructor. Grade of C or better in: CSCI 3340 or CMPE 3340. Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380].	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective. See General Education Core for course options.
FOLIRTH VFAR	I	3 3 3 3 3 15 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F Choose 1 CSCI 3341	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software Hours Creative Arts (Core) Software Engineering II	C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of instructor. Grade of C or better in: CSCI 3340 or CMPE 3340. Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380].	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective.
FOLIRTH VEAR	FALL	3 3 3 3 3 15 3 3	Course # CMPE 3343 or STAT 3337 Choose 1 Choose 1 CSCI 4345 CMPE 4371 Semester Total F Choose 1 CSCI 3341 CSCI 4334	Probability and Statistics American History (Core) Prescribed Elective Computer Networks Senior Design I Software Hours Creative Arts (Core) Software Engineering II Operating Systems	C C C C C	060	Math 2414 with a grade of 'C' or better. Grade of C or better in: [CSCI 2380 or CMPE 2380] and [CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437]. [Grade of C or better in: CSCI 3340 or CMPE 3340] and Consent of instructor. Grade of C or better in: CSCI 3340 or CMPE 3340. Grade of C or better in: [CSCI 2333 or CMPE 2333] and [CSCI 2380 or CSCI 2388 or CMPE 2380].	See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328. See Degree for course options. 5 hours required - may take one (2) credit and one (3) credit technical elective. See General Education Core for course options. See Degree for course options. 5 hours required - may take one

Symbols Key

Critical ('!'): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

Major Graduation Requirements

All students must complete a two-semester capstone senior design project, represented by CMPE 4371 and CMPE 4372 or CMPE 4373 and CMPE 4374 in the degree plan. This project must be of substantial scope and complexity, demonstrate competencies from across the curriculum (in particular, the ability to design computer software, electronic hardware and integrate the two in systems) and address the social, economic and ethical consequences of the project. All courses in the major requirements including the concentration must be completed with a grade of 'C' or better.

126 TOTAL HOURS (42 advanced minimum credit hours)

Approved: 3/27/2020 Revised: 2/8/2021