

Bachelor of Science in Computer Engineering *General Track*

Catalog Year 2016-2017

		Н А	Course #	Course Title	Min.	CEC	Prerequisite	Additional Notes
			Course #	Course Title	Grade	GEC		
		3	ENGL 1301	Rhetoric and Composition I	С	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	
4		4	MATH 2413	Calculus I	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
FALL		1	CMPE 1101	Introduction to Computer Engineering				
		3	POLS 2301	U.S. & Texas Government & Politics I		070		
œ		3	X3XX	Social and Behavioral Science		080		See General Education Core Curriculum
ST YE			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
造	1	14 (0)	Semester					
		3	ENGL 1302	Rhetoric And Composition II	С	010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4	MATH 2414	Calculus II	С	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
SPRING		3	CMPE 1370	Engineering Computer Science I	С		Grade of 'C' or better in MATH 1314 or placement in a higher level Math course; and CMPE 1101. Co-requisite: CMPE 1170.	
X		1	CMPE 1170	Engineering Computer Science I Lab	С		Co-requisite: CMPE 1370.	
S		4	PHYS 2425	Physics for Scientists and Engineers I			MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	1 hour of lab for Core 090
	1	15 (0)	Semester					
		Н А	Course #	Course Title	Min.	GEC	Prerequisite	Additional Notes
			Course #	Codisc Hile	Grade	1	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178)	Additional Notes
		3	MATH 2346	Mathematics for Electrical and Computer Engineers			with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
-		3	CMPE 2380	Computer Science II	С		CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor.	OR CSCI 2380
FALL		3	X3XX	Integrative/Experiential Learning		090		Choose any course from Humanities (040 Language, Philosophy & Culture) except Professional Ethics
		3	CMPE 2330	Digital Systems Engineering I				
		3	HIST 1301	U.S. History I		060		
¥		1	CMPE 2130	Digital Systems Engineering I Lab			Credit/registration for CMPE/ELEE 2330.	
YE,	1	16 (0)	Semester					
COND		3 (3)	CMPE 3333	Algorithms and Data Structures			CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 or MATH 2305.	
SE		4	PHYS 2426	Physics for Scientists and Engineers II		060/ 090	PHYS 2425.	1 hour of lab for Core 090
SPRING		3	CMPE 2320	Electric Circuits I			MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426.	
<u> </u>		1	CMPE 2120	Electric Circuits I Lab			Credit/registration for CMPE 2320 or ELEE 2305.	
S		4 (4)	CMPE 3437	Microprocessor Systems			CMPE/ELEE 2330; and CMPE/CSCI 1370 (or CMPE/CSCI 1378).	OR CMPE 2333 - Computer Organization and Assembly Language)
		3	CHEM 1307	Chemistry for Engineers			MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of "C" or higher."	
		1		Chemistry for Engineers Lab			Credit/registration in CHEM 1307.	
			Semester			_		

	!	Н	Α		Course Title	Min. Grade		Prerequisite	Additional Notes
		3		PHIL 1310	Ethics, Happiness, and the Good Life		040		Must enroll in Engineering designated section
		3	(3)	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
	FALL	3	(3)	CMPE 3334	Systems Programming			CSCI/CMPE 2380; and CSCI/CMPE 2333, ELEE 3435, or CMPE 3437.	
ľ	74	3	(3)	CMPE 3322	Signals and Systems			CMPE 2320 or ELEE 2305; and credit/registration for MATH 3341.	OR CMPE 3341 OR CMPE 4333 OR either CMPE 3326/3328
rear		4			Electronics for Computer Engineering			CMPE 2320 or ELEE 2305 and CMPE 2330 or ELEE 2330 with a grade of C or better.	
á		16	(13)	Semester					
筆		3		HIST 1302	U.S. History II		060		
F		3	(3)	CMPE 3340	Software Engineering I			3 advanced hours in CSCI (or CMPE equivalent); and CSCI/CMPE 2380 (or CSCI/CMPE 2388).	
		3	(3)	CMPE 4375	Introduction to VLSI Design			CMPE/ELEE 2330 and CMPE 3403.	
	SPRING	3	(3)	CMPE 4335	Computer Architecture			CSCI/CMPE 3333; and either CSCI/CMPE 2333, CMPE 3437, or ELEE 3435.	
,	S	3	(3)	CMPE 4303	Digital Systems Engineering II			CMPE/ELEE 2330 or consent of instructor.	
			(2)		Electrical Engineering I Lab			Credit/registration for CMPE 3403 and MATH 3341.	OR CMPE 3341 OR CMPE 4333 OR either CMPE 3326/3328
		17	(14)	Semester					
	!	Н	Α	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	(3)	MATH 4337	Probability and Statistics I			MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		3	(3)	CMPE 43XX	Technical Elective				
		3		POLS 2302	U.S. & Texas Government & Politics II		070		
~	FALL	3	(3)	CMPE 3331	Microcontroller and Embedded Systems Lab			CMPE 3437 or ELEE 3435.	OR CMPE 3341 OR CMPE 4333 OR either CMPE 3326/3328
YEAF		3	(3)	CMPE 4373	Senior Design I Hardware			Consent of instructor and either CSCI 3340 or CMPE 3340.	OR CMPE 4373 (must pair with CMPE 4374)
OURTH		15	(12)	Semester					
9		3		X3XX	Creative Arts		050		See General Education Core Curriculum
ш.		3	(3)	CMPE 4390	Communications Networks			CMPE 3437 or ELEE 3435.	OR CMPE 4345 Computer Networks
	RING	3	(3)	CMPE 4334	Operating Systems			CSCI/CMPE 3333 and CSCI/CMPE 3334 or consent of the instructor.	
5	SP	3	(3)	CMPE 43XX	Technical Elective				
		3	(3)	CMPE 4374	Senior Design II Hardware			CMPE 4373 and consent of instructor.	OR CMPE 4374 (if CMPE 4373 taken)
		15	(12)	Semester					

Graduation Requirements

126 TOTAL (54) TOTAL Approved: Wednesday, March 12, 2014 Revised: Friday, September 30, 2016

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 & to demonstrate language proficiency in a language other Culture; 050 - Creative Arts; 060 - American History; 070 -Government/Political Science; 080 - Social and Behavioral Sciences; 090 -Computer Application; 090 - Interdisciplinary; 090 - Science Labs; 090 -Wellness.

Language Proficiency Requirement: Student is required than English at the undergraduate level equivalent to a minimum of six credits.

Bachelor of Science in Computer Engineering *Hardware Track*

Catalog Year 2016-2017

	. !	Н А	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	С	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. $ \label{eq:continuous} $	
	! <u> </u>	4	MATH 2413	Calculus I	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
	FALL	1		Introduction to Computer Engineering				
		3	POLS 2301	U.S. & Texas Government & Politics I		070		
AR		3	X3XX	Social and Behavioral Science		080		See General Education Core Curriculum
STYE			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
盖			Semester					
		3		Rhetoric And Composition II			A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4	MATH 2414	Calculus II	С	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	SPRING	3	CMPE 1370	Engineering Computer Science I	С		Grade of 'C' or better in MATH 1314 or placement in a higher level Math course; and CMPE 1101. Co-requisite: CMPE 1170.	
	P.R.	1	CMPE 1170	Engineering Computer Science I Lab	С		Co-requisite: CMPE 1370.	
		4		Physics for Scientists and Engineers I		,	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	1 hour of lab for Core 090
		15 (0)	Semester					
	!	Н А	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	MATH 2346	Mathematics for Electrical and Computer Engineers			CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	_ \square	3	CMPE 2380	Computer Science II	С		CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor.	OR CSCI 2380
	FALL	3	хзхх	Integrative/Experiential Learning		090		Choose any course from Humanities (040 Language, Philosophy & Culture) except Professional Ethics
		3	CMPE 2330	Digital Systems Engineering I				
~		3	HIST 1301	U.S. History I		060		
图		1	CMPE 2130	Digital Systems Engineering I Lab			Credit/registration for CMPE/ELEE 2330.	
ND Y		16 (0)	Semester					
ECON		3 (3)	CMPE 3333	Algorithms and Data Structures			CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 or MATH 2305.	
S		4	PHYS 2426	Physics for Scientists and Engineers II		060/ 090	PHYS 2425.	1 hour of lab for Core 090
	SPRING	3	CMPE 2320	Electric Circuits I			MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426.	
	SPI	1	CMPE 2120	Electric Circuits I Lab			Credit/registration for CMPE 2320 or ELEE 2305.	
		4 (4)	CMPE 3437	Microprocessor Systems			CMPE/ELEE 2330; and CMPE/CSCI 1370 (or CMPE/CSCI 1378).	
		3	CHEM 1307	Chemistry for Engineers			MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of "C" or higher."	
		1		Chemistry for Engineers Lab			Credit/registration in CHEM 1307.	
		10 (-)	Semester					

	· !	Н А	Course #	Course Title	Min. Grade GEC	Prerequisite	Additional Notes
		3	PHIL 1310	Ethics, Happiness, and the Good Life	040		Must enroll in Engineering designated section
	Ш	3 (3	MATH 3341	Differential Equations		MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
FALL	Ц	3 (3	CMPE 3334	Systems Programming		CSCI/CMPE 2380; and CSCI/CMPE 2333, ELEE 3435, or CMPE 3437.	
		3 (3	CMPE 3322	Signals and Systems		CMPE 2320 or ELEE 2305; and credit/registration for MATH 3341.	
YEAR		4 (4	CMPE 3403	Electronics for Computer Engineering		CMPE 2320 or ELEE 2305 and CMPE 2330 or ELEE 2330 with a grade of C or better.	
THIRD		16 (13) Semester				
臣		3	HIST 1302	U.S. History II	060		
		3 (3	CMPE 3340	Software Engineering I		3 advanced hours in CSCI (or CMPE equivalent); and CSCI/CMPE 2380 (or CSCI/CMPE 2388).	
<u>o</u>		3 (3	CMPE 4375	Introduction to VLSI Design		CMPE/ELEE 2330 and CMPE 3403.	
SPRING		3 (3	CMPE 4335	Computer Architecture		CSCI/CMPE 3333; and either CSCI/CMPE 2333, CMPE 3437, or ELEE 3435.	
		3 (3	CMPE 4303	Digital Systems Engineering II		CMPE/ELEE 2330 or consent of instructor.	
		2 (2	CMPE 3226	Electrical Engineering I Lab		Credit/registration for CMPE 3403 and MATH 3341.	
		17 (14) Semester				
	!	Н А	Course #	Course Title	Min. Grade GEC	Prerequisite	Additional Notes
		3 (3	MATH 4337	Probability and Statistics I		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		3 (3	CMPE 43XX	Technical Elective			
_		3	POLS 2302	U.S. & Texas Government & Politics II	070		
FALL		3 (3	CMPE 3331	Microcontroller and Embedded Systems Lab		CMPE 3437 or ELEE 3435.	
YEAR		3 (3	CMPE 4373	Senior Design I Hardware		Consent of instructor and either CSCI 3340 or CMPE 3340.	
FOURTH		15 (12) Semester				
ă I		3	X3XX	Creative Arts	050		See General Education Core Curriculum
5		3 (3	CMPE 4390	Communications Networks		CMPE 3437 or ELEE 3435.	
SPRING		3 (3	CMPE 4334	Operating Systems		CSCI/CMPE 3333 and CSCI/CMPE 3334 or consent of the instructor.	
8		3 (3	CMPE 43XX	Technical Elective			
		3 (3	CMPE 4374	Senior Design II Hardware		CMPE 4373 and consent of instructor.	
		15 (12) Semester				

Graduation Requirements

126 TOTAL (57) TOTAL Approved: Wednesday, March 12, 2014 Revised: Friday, September 30, 2016

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 - Computer Application; 090 - Interdisciplinary; 090 - Science Labs; 090 - Wellness.

Language Proficiency Requirement: Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

Bachelor of Science in Computer EngineeringSoftware Track

Catalog Year 2016-2017

	-	Н А	Course #	Course Title	Min.	CEC	Prerequisite	Additional Notes
		пА	Course #	Course ritie	Grade	GEC		Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	С	010	Satisfactory scores on English portion of ACT test and TSI examination	
							or ENGL 0301.	
							MATH 2412 with a grade of 'C' or better; or passing the Precalculus	
		4	MATH 2413	Calculus I	С	020	Exemption Test administered by the Department of Mathematics.	
							Exemption rest duministered by the bepartment of Muthematics.	
FALL		1	CMPE 1101	Introduction to Computer Engineering				
1		3	POLS 2301	U.S. & Texas Government & Politics I		070		
~		3	V2VV	Integrative and Experiential Learning		000		Choose any course from Humanities (040 Language,
ĒĀ		3	X3XX	Integrative and Experiential Learning		090		Philosophy & Culture) except Professional Ethics
É			111111111111111111111111111111111111111					O I if a similar ACT/CAT a like in a land
₹			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
ш.		14 (0)	Semester					
		3	ENGL 1302	Rhetoric And Composition II	С	010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4	MATH 2414	Calculus II	С		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		3	CN 4DE 4270	Engineering Computer Science I			Grade of 'C' or better in MATH 1314 or placement in a higher level	
Ž		3	CMPE 1370	Engineering computer science i			Math course; and CMPE 1101. Co-requisite: CMPE 1170.	
SPRING		1	CMPE 1170	Engineering Computer Science I Lab			Co-requisite: CMPE 1370.	
~						060/0	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH	
		4	PHYS 2425	Physics for Scientists and Engineers I		90	2414 (or MATH 2488).	1 hour of lab for Core 090
		15 (0)	Semester	1			,	
	!	Н А	Course #	Course Title	Min. Grade		Prerequisite	Additional Notes
	!	H A	Course #		Min. Grade	GEC	Prerequisite CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178)	Additional Notes
		H A	Course # MATH 2346	Mathematics for Electrical and Computer	Min. Grade	GEC	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178)	Additional Notes
					Min. Grade	GEC	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of $^{\circ}$ C' or better, and MATH 2413 (or MATH 2487) with a	Additional Notes
		3	MATH 2346	Mathematics for Electrical and Computer Engineers	Min. Grade	GEC	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
				Mathematics for Electrical and Computer	Min. Grade	GEC	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent	Additional Notes OR CSCI 2380
FAIL		3	MATH 2346 CMPE 2380	Mathematics for Electrical and Computer Engineers Computer Science II	Min. Grade		CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better.	OR CSCI 2380
FAIL		3 3 3	MATH 2346 CMPE 2380 X3XX	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science	Min. Grade	080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent	
R		3 3 3 3	MATH 2346 CMPE 2380 X3XX HIST 1301	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I	Min. Grade	080	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent	OR CSCI 2380
FAIL FAIL		3 3 3 3 3	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I	Min. Grade	080	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor.	OR CSCI 2380
YEAR		3 3 3 3 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I	Min. Grade	080	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent	OR CSCI 2380
YEAR		3 3 3 3 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I	Min. Grade	080	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor.	OR CSCI 2380
ECOND YEAR		3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures	Min. Grade	080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310	OR CSCI 2380 See General Education Core Curriculum
YEAR		3 3 3 3 1 16 (0)	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab	Min. Grade	080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310	OR CSCI 2380
YEAR		3 3 3 3 3 3 1 1 16 (0) 3 (3) 4	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II	Min. Grade	080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425.	OR CSCI 2380 See General Education Core Curriculum
SECOND YEAR		3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I	Min. Grade	080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426.	OR CSCI 2380 See General Education Core Curriculum
SECOND YEAR		3 3 3 3 3 3 1 1 10 (o) 3 (3) 4 3 3 1 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320 CMPE 2120	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I Electric Circuits I Lab		080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426. Credit/registration for CMPE 2320 or ELEE 2305.	OR CSCI 2380 See General Education Core Curriculum
YEAR		3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320 CMPE 2120	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I		080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426. Credit/registration for CMPE 2320 or ELEE 2305. CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378).	OR CSCI 2380 See General Education Core Curriculum
SECOND YEAR		3 3 3 3 3 1 1 16 (o) 3 (3) 4 3 1 3 3	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320 CMPE 2320 CMPE 2333	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I Electric Circuits I Lab Computer Organization and Assembly Language		080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426. Credit/registration for CMPE 2320 or ELEE 2305. CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378). MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of	OR CSCI 2380 See General Education Core Curriculum 1 hour of lab for Core 090
SECOND YEAR		3 3 3 3 3 3 1 1 10 (o) 3 (3) 4 3 3 1 1	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320 CMPE 2320 CMPE 2333 CHEM 1307	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I Electric Circuits I Lab Computer Organization and Assembly Language Chemistry for Engineers		080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426. Credit/registration for CMPE 2320 or ELEE 2305. CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378). MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of "C" or higher."	OR CSCI 2380 See General Education Core Curriculum
SECOND YEAR		3 3 3 3 3 1 1 16 (o) 3 (3) 4 3 1 3 3	MATH 2346 CMPE 2380 X3XX HIST 1301 CMPE 2330 CMPE 2130 Semester CMPE 3333 PHYS 2426 CMPE 2320 CMPE 2320 CMPE 2333 CHEM 1307	Mathematics for Electrical and Computer Engineers Computer Science II Social and Behavioral Science U.S. History I Digital Systems Engineering I Digital Systems Engineering I Lab Algorithms and Data Structures Physics for Scientists and Engineers II Electric Circuits I Electric Circuits I Lab Computer Organization and Assembly Language		080 060	CSCI 1380 (or CSCI 1387) or CMPE 1170/1370 (or CMPE 1378/1178) with a grade of 'C' or better, and MATH 2413 (or MATH 2487) with a grade of 'C' or better. CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor. Credit/registration for CMPE/ELEE 2330. CSCI/CMPE 2380 (or CSCI/CMPE 2388); and MATH 2346 or CSCI 3310 PHYS 2425. MATH 2414 (or MATH 2488) and credit/registration for PHYS 2426. Credit/registration for CMPE 2320 or ELEE 2305. CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378). MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of	OR CSCI 2380 See General Education Core Curriculum 1 hour of lab for Core 090

	!	Н	Α	Course #	Course Title	Min. GEC	Prerequisite	Additional Notes
		3		PHIL 1310	Ethics, Happiness, and the Good Life	040		Must enroll in Engineering designated section
		3	(3)	MATH 3341	Differential Equations		MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	MATH 2346 for ELEE and CMPE
	FALL	3	(3)	CMPE 3334	Systems Programming		CSCI/CMPE 2380; and CSCI/CMPE 2333, ELEE 3435, or CMPE 3437.	
		3	(3)	CMPE 4333	Database Design and Implementation		CSCI 3333 or CMPE 3333.	
THIRD YEAR		4	(4)	CMPE 3403	Electronics for Computer Engineering		CMPE 2320 or ELEE 2305 and CMPE 2330 or ELEE 2330 with a grade of C or better.	
ΥE		16	(13)	Semester				
8		3		HIST 1302	U.S. History II	060		
픁		3	(3)	CMPE 3340	Software Engineering I		3 advanced hours in CSCI (or CMPE equivalent); and CSCI/CMPE 2380 (or CSCI/CMPE 2388).	
	(5)	3	(3)	CMPE 4375	Introduction to VLSI Design		CMPE/ELEE 2330 and CMPE 3403.	
	SPRING	3	(3)	CMPE 4335	Computer Architecture		CSCI/CMPE 3333; and either CSCI/CMPE 2333, CMPE 3437, or ELEE 3435.	
		3	(3)	CMPE 4303	Digital Systems Engineering II		CMPE/ELEE 2330 or consent of instructor.	
		3	(3)	CMPE 3326	Object Oriented Programming in JAVA		CSCI 1380 (or CSCI 1387), or CSCI 1370 (or CSCI 1378), or CMPE 1370 (or CMPE 1378), or consent of instructor.	Can also take CMPE 3328: Objective-Oriented Programming in C#
		18	(15)	Semester				
	!	_	Α	Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes
		3	(3)	MATH 4337	Probability and Statistics I		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		3	(3)	CMPE 43XX	Technical Elective			5 hours required - may take one (2) credit and one (3) credit technical elective.
	FALL	3		POLS 2302	U.S. & Texas Government & Politics II	070		
	7	3	(3)	CMPE 4345	Computer Networks		CSCI 3333 or CMPE 3333.	
FOURTH YEAR		3			Senior Design I Software		Consent of instructor and either CSCI 3340 or CMPE 3340.	
貫		15	(12)	Semester				
Ę.		3		X3XX	Creative Arts	050		See General Education Core Curriculum
윤		3	(3)	CMPE 3341	Software Engineering II		CSCI 3340 or CMPE 3340.	
	SPRING	3	(3)	CMPE 4334	Operating Systems		CSCI/CMPE 3333 and CSCI/CMPE 3334 or consent of the instructor.	
	SPR	3	(3)	CMPE 43XX	Technical Elective			5 hours required - may take one (2) credit and one (3) credit technical elective.
		3	(3)	CMPE 4372	Senior Design II Software		CMPE 4371 and consent of instructor.	
		15	(12)	Semester				
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Graduation Requirements

126TOTAL HOURSApproved: Wednesday, March 12, 2014(54)TOTALRevised: Friday, September 30, 2016

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 - Computer Application; 090 - Interdisciplinary; 090 - Science Labs; 090 - Wellness.

Language Proficiency Requirement: Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.