

Bioinformatics concentration

	!	Н	Α	Course #	Course Title Grand	in. ede GEO	Prerequisite	Additional Notes
		3		ENGL 1301	Rhetoric and Composition I	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	
		4		MATH 2413	Calculus I	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
	_	3		HIST 1301	U.S. History I	060		
	FALL	4		BIOL 1406	General Biology I	030		
YEAR		3		CSCI 1380	Integrative and Experiential Learning	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
FIRST				UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.
		17	(0)	Semester				
		3		ENGL 1302	Rhetoric And Composition II	010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
	(D	4		MATH 2414	Calculus II	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	SPRING	3		HIST 1302	U.S. History II	060		
	SPR	4		BIOL 1407	General Biology II	030	BIOL 1406 or BIOL 1487.	
		3		X3XX	Creative Arts			See General Education Core Curriculum
		17	(0)	Semester				
	!	Н	Α	Course #	Course Title Gra	in. GEO	Prerequisite	Additional Notes
		3		MATH 2318	Linear Algebra		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		3		CSCI 2380	Computer Science II		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.	
	_	3		POLS 2301	U.S. & Texas Government & Politics I	070		
	FALL	3		CHEM 1311	Life and Physical Science	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	
EAR		1		CHEM 1111	Integrative and Experiential Learning	090	Credit/registration in CHEM 1311	
D Y		3		PHIL 1310	Ethics, Happiness, and the Good Life	040		Must enroll in Engineering designated section
S		16	(0)	Semester				
SEC		3	(3)	MATH 3331	Applied Statistics I		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
•		3		CSCI 2333	Computer Organization and Assembly Language		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387).	
	NG	3		POLS 2302	U.S. & Texas Government & Politics II	070		
	SPRING	3		CHEM 1312	Life and Physical Science	030	CHEM 1311.	
	·	1		CHEM 1112	Integrative and Experiential Learning	090	Credit/registration in CHEM 1312.	
		1		X1XX	Integrative and Experiential Learning			
		14	(3)	Semester				

	!	Н	Α	Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes
		3	(3)	CSCI 3310	Discrete Data Structures		MATH 2413 with grade of 'C' or better; and CSCI/CMPE 1370 (or CSCI/CMPE 1378).	
		3		ELEE 2330	Digital Systems Engineering I			
		1		ELEE 2130	Digital Systems Engineering I Lab		Credit/registration in ELEE 2330.	
	FALL	3		BIOL 2343	General Biology III		BIOL 1407 (or BIOL 1488) and credit/registration in BIOL 2143.	
AR		1		BIOL 2143	General Biology III Lab		BIOL 1407 (or BIOL 1488) and credit/registration in BIOL 2343.	
D YE		3		X3XX	Social and Behavior Science			
E E		14	(3)	Semester				
Ė		3	(3)	CSCI 3333	Algorithms and Data Structures		CSCI/CMPE 2380 (or CSCI/CMPE 2388); and credit/registration for MATH 2346 or CSCI 3310 or MATH 2305.	
	SPRING	3	(3)	CSCI 3340	Software Engineering I		CSCI 2380 (or CSCI 2388) or CMPE 2380 (CMPE 2388), and 3 advanced hours in CSCI courses.	
	SPR	4	(4)	BIOL 3409	Ecology		9 hours of Biology, including BIOL 1407 (or BIOL 1488).	
		3	(3)	CSCI X3XX	Advance Elective			
		4	(4)	BIOL X4XX	Advance Elective			
				Semester				
	!		Α	Course #	Course Title	Min. GEC	Prerequisite	Additional Notes
		3	-	CSCI 4390	Senior Project		CSCI 3340 or CMPE 3340 and consent of instructor.	
		3	(3)	CSCI 4333	Database Design and Implementation		CSCI 3333 or CMPE 3333.	
	∃ _	3	(3)	CSCI X3XX	Advance Elective			
EAR	FALL	4	(4)	BIOL 3413	Genetics		BIOL 1406 (or BIOL 1487) , BIOL 1407 (or BIOL 1487), CHEM 1311, CHEM 1111, CHEM 1312, and CHEM 1112.	
RTH YI	_	13	(13)	Semester				
Ü		3	(3)	CSCI 4345	Computer Networks		CSCI 3333 or CMPE 3333.	
	П	3	(3)	BIOL 4301	Evolution		BIOL 2343.	
	SPRING	3	(3)	CSCI X3XX	Advance Elective			
	SPR	3	(3)	BIOL X3XX	Advance Elective			
		12	(12)	Semester		•		

120 **TOTAL HOURS**

(48) **TOTAL ADVANCED HOURS** Approved: Wednesday, March 12, 2014 Revised: Friday, October 23, 2015

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; Language Proficiency Requirement: Student is required to 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 six credits. ;090 - Science Labs; 090 - Wellness.

demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of

26 Page 2 of 2



Computational Mathematics concentration

	!	Н А	Course #	Course Title Min.	GEC	Prerequisite	Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	
		4	MATH 2413	Calculus I	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
FALL		3	HIST 1301	U.S. History I	060		
EAR F		3	CSCI 1380	Computer Science I	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
Y.		3	X3XX	Creative Arts			
FIRS.			UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.
			Semester				
		3	ENGL 1302	Rhetoric And Composition II	_	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4		Calculus II	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
٢		3	HIST 1302	U.S. History II	060		
SPRING		3	X3XX	Social and Behavioral Science			See General Education Core Curriculum
V.		3	CSCI 2380	Computer Science II		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.	
		16 (0)	Semester				
	- !	Н А	Course #	Course Title Min. Grade	GEC	Prerequisite	Additional Notes
		4	PHYS 2425	Physics for Scientists and Engineers I	030	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	
		3	PHIL 1310	Ethics, Happiness, and the Good Life	040		Must enroll in Engineering designated section
FA		3	POLS 2301	U.S. & Texas Government & Politics I	070		
		4	MATH 2415	Calculus III		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
AR		3		Linear Algebra		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
¥			Semester				
ND ND		3	POLS 2302	U.S. & Texas Government & Politics II	070		
8		4	PHYS 2426	Physics for Scientists and Engineers II	030	PHYS 2425.	
S		1	X1XX	Integrative/Experiential Learning			See General Education Core Curriculum
2		3 (3)	MATH 3331	Applied Statistics I		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
SPRING		3	CSCI 2333	Computer Organization and Assembly Language		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387).	
		3 (3)	MATH 3341	Differential Equations		MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
		17 (6)	Semester	·			

	!	Н А	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3 (3)	CSCI 3310	Discrete Data Structures			CCCL/CNADE 4370\	
		3	ELEE 2330	Digital Systems Engineering I				
		1	ELEE 2130	Digital Systems Engineering I Lab			Credit/registration in ELEE 2330.	
	FALL	3 (3)	MATH 3350	Introduction to Mathematical Proof			MATH 2318 with a grade of 'C' or better.	
AR		3 (3)	CSCI X3XX	Advance CSCI Elective				
ΥE		3 (3)	MATHX3XX	Advance Math Elective				
THIRD		16 (12)	Semester					
픋		3 (3)	CSCI 3333	Algorithms and Data Structures			CSCI/CIVILE 2300 (OF CSCI/CIVILE 2300), and Credit/registration for CSCI/C300) or CMATE 2300 (CIVILE 2300), and 3 auvanced	
	(1)	3 (3)	CSCI 3340	Software Engineering I			have in CCCI accordance	
	SPRING	3 (3)	MATH 3352	Modern Geometry I			MATH 2318 with a grade of 'C' or better.	
	SPR	2 (2)	CSCI X2XX	Advance CSCI Elective				
		3 (3)	CSCI X3XX	Advance CSCI Elective				
		14 (14)	Semester					
	!	Н А	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3 (3)	CSCI 4390	Senior Project			CSCI 3340 or CMPE 3340 and consent of instructor.	
		3 (3)	CSCI 4333	Database Design and Implementation			CSCI 3333 or CMPE 3333.	
AR	ALL	3 (3)	MATH 3363	Modern Algebra I			MATH 2318 and MATH 3350, each with a grade of 'C' or better.	
y		3 (3)	CSCI X3XX	Advance CSCI Elective				
튽		12 (12)	Semester					
OURTH		3 (3)	CSCI 4345	Computer Networks			CSCI 3333 or CMPE 3333.	
윤	פַ	3 (3)	MATHX3XX	Advance Math Elective				
	SPRING	3 (3)	CSCI X3XX	Advance CSCI Elective				
	SF	3 (3)	CSCI X3XX	Advance CSCI Elective				
		12 (12)	Semester					

TOTAL HOURS 120

(56) TOTAL ADVANCED HOURS Approved: Wednesday, March 12, 2014 Revised: Friday, October 23, 2015

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 & demonstrate language proficiency in a language other than 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 English at the undergraduate level equivalent to a minimum of six credits.



Computational Chemistry concentration

	!	Н А	Course #	Course Title Min	GEC	Prerequisite	Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	
		4	MATH 2413	Calculus I	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
		3	HIST 1301	U.S. History I	060		
	FALL	3	CHEM 1311	Life and Physical Science	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	
*		1	CHEM 1111	Integrative and Experiential Learning	090	Credit/registration in CHEM 1301.	
ST YE/		3	CSCI 1380	Computer Science I	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
臣			UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.
			Semester				
		3	ENGL 1302	Rhetoric And Composition II	010	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4	MATH 2414	Calculus II	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	<u> </u>	3	HIST 1302	U.S. History II	060		
	Z	3	CHEM 1312	Life and Physical Science	030	CHEM 1311.	
	7	1	CHEM 1112	Integrative and Experiential Learning	090	Credit/registration in CHEM 1312.	
		3	CSCI 2380	Computer Science II		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.	
			Semester				
	. !	H A	Course #	Course Title Min Grad	GEC	Prerequisite	Additional Notes
		3		Analytical Chemistry			
		1	CHEM 2101	Analytical Chemistry Lab		CHEM 2301.	
	, _	3	CSCI 2333	Computer Organization and Assembly Language		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387).	
	FALL	1	X1XX	Integrative and Experiential Learning	090		
EAR		3	PHIL 1310	Ethics, Happiness, and the Good Life	040		Must enroll in Engineering designated section
Dγ		3	POLS 2301	U.S. & Texas Government & Politics I	070		
NO.		3	X3XX	Social and Behavior Science			See General Education Core Curriculum
SEC		17 (0)	Semester				
		3	CHEM 2323	Organic Chemistry I			
	<u>. </u>	1	CHEM 2123	Organic Chemistry I Lab		Credit/registration in CHEM 2323.	
	Ž	4	PHYS 1401	General Physics I		MATH 1414 or MATH 1314.	
	7	3	POLS 2302	U.S. & Texas Government & Politics II	070		
		3	X3XX	Creative Arts			See General Education Core Curriculum
		14 (0)	Semester				

	!	H A	Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes
		3 (3)	CSCI 3310	Discrete Data Structures		MATH 2413 with grade of 'C' or better; and CSCI/CMPE 1370 (or CSCI/CMPE 1378).	
		3	ELEE 2330	Digital Systems Engineering I			
	ⅎ	1	ELEE 2130	Digital Systems Engineering I Lab		Credit/registration in ELEE 2330.	
	FALL	3 (3)	CHEM 3303	Biochemistry I		CHEM 2323.	
œ		1 (1)	CHEM 3103	Biochemistry I Lab		Credit/registration in CHEM 3303.	
YEA		3 (3)	MATH 3331	Applied Statistics I		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
2		14 (10)	Semester				
THIRD		3 (3)	CSCI 3333	Algorithms and Data Structures		CSCI/CMPE 2380 (or CSCI/CMPE 2388); and credit/registration for MATH 2346 or CSCI 3310 or MATH 2305.	
	DQ.	3 (3)	CSCI 3340	Software Engineering I		CSCI 2380 (or CSCI 2388) or CMPE 2380 (CMPE 2388), and 3 advanced hours in CSCI courses.	
	SPRING	3 (3)	CHEM 3301	Inorganic Chemistry		12 hours of chemistry, including CHEM 2323.	
	S	2 (2)	CHEM 3202	Inorganic Chemistry Lab		Credit/registration in CHEM 3301.	
		4 (4)	X4XX	Advanced Chemistry or Physics Elective		Computational Chemistry Elective	
		15 (15)	Semester				
	- 1	H A	Course #	Course Title	Min. GEC	Prerequisite	Additional Notes
		3 (3)	CSCI 4390	Senior Project		CSCI 3340 or CMPE 3340 and consent of instructor.	
		3 (3)	CSCI 4333	Database Design and Implementation		CSCI 3333 or CMPE 3333.	
~	FALL	3 (3)	CSCI 4333 CHEM 3304	Database Design and Implementation Physical Chemistry I		CSCI 3333 or CMPE 3333. PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488).	
EAR	FALL		CHEM 3304			PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better	
YEAR	FALL	3 (3)	CHEM 3304 CHEM 3104	Physical Chemistry I		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488).	
YEAR	FALL	3 (3) 1 (1) 3 (3)	CHEM 3304 CHEM 3104	Physical Chemistry I Physical Chemistry I Lab		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304.	
FOURTH YEAR	FALL	3 (3) 1 (1) 3 (3)	CHEM 3304 CHEM 3104 CSCI X3XX	Physical Chemistry I Physical Chemistry I Lab		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304.	
FOURTH YEAR		3 (3) 1 (1) 3 (3) 13 (13)	CHEM 3304 CHEM 3104 CSCI X3XX Semester	Physical Chemistry I Physical Chemistry I Lab Advance Elective		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304. Computational Science Elective	
FOURTH YEAR		3 (3) 1 (1) 3 (3) 13 (13) 3 (3)	CHEM 3304 CHEM 3104 CSCI X3XX Semester CSCI 4345	Physical Chemistry I Physical Chemistry I Lab Advance Elective Computer Networks		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304. Computational Science Elective CSCI 3333 or CMPE 3333.	
FOURTH YEAR	SPRING FALL	3 (3) 1 (1) 3 (3) 13 (13) 3 (3) 1 (1)	CHEM 3304 CHEM 3104 CSCI X3XX Semester CSCI 4345 X1XX	Physical Chemistry I Physical Chemistry I Lab Advance Elective Computer Networks Advanced Chemistry or Physics Elective		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304. Computational Science Elective CSCI 3333 or CMPE 3333. Computational Chemistry Elective	
FOURTH YEAR		3 (3) 1 (1) 3 (3) 13 (13) 3 (3) 1 (1) 3 (3)	CHEM 3304 CHEM 3104 CSCI X3XX Semester CSCI 4345 X1XX CSCI X3XX CSCI X3XX	Physical Chemistry I Physical Chemistry I Lab Advance Elective Computer Networks Advanced Chemistry or Physics Elective Advance Elective		PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488). Credit/registration in CHEM 3304. Computational Science Elective CSCI 3333 or CMPE 3333. Computational Chemistry Elective Computational Science Elective	

120 **TOTAL HOURS**

(48) **TOTAL ADVANCED HOURS** Approved: Wednesday, March 12, 2014 Revised: Friday, October 23, 2015

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 -

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 Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

> 28 Page 2 of 2



Computational Physics concentration

	!	Н А	Course #	Course Title Mir	. GEC	Prerequisite	Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	
		4	MATH 2413	Calculus I	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus	
						Exemption Test administered by the Department of Mathematics.	
FALL	1	3		U.S. History I	060		
₽	4	3	X3XX	Creative Arts			See General Education Core Curriculum
EAR		3	CSCI 1380	Integrative and Experiential Learning	090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course. $ \\$	
IRST Y				Learning Framework			Only if required, based on ACT/SAT and high school rank.
-		_	Semester				
		3		Rhetoric And Composition II	_	A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4	MATH 2414	Calculus II	020	MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
2	2	3	HIST 1302	U.S. History II	060		
SPRING		3	X3XX	Social and Behavior Sciences			See General Education Core Curriculum
S		3	CSCI 2380	Computer Science II		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.	
	1	L 6 (0)	Semester				
	!	Н А	Course #	Course Title Min	. GEC	Prerequisite	Additional Notes
		3	MATH 2318	Linear Algebra		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		4	MATH 2415	Calculus III		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		3	POLS 2301	U.S. & Texas Government & Politics I	070		
FALL	<u> </u>	4	PHYS 2425	Life and Physical Science	030	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	
¥		3	PHIL 1310	Ethics, Hapiness, and the Good Life	040		Must enroll in Engineering designated section
	1	L 7 (0)	Semester				
YEA						MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		3 (3)	MATH 3331	Applied Statistics I		WATT 2415 (of WATT 2407) WITH a grade of C of better.	
SECOND YE		3 (3)		Applied Statistics I Computer Organization and Assembly Language		CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387).	
			CSCI 2333		070	CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or	
		3	CSCI 2333 POLS 2302	Computer Organization and Assembly Language	_	CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or	
		3	CSCI 2333 POLS 2302 PHYS 2426	Computer Organization and Assembly Language U.S. & Texas Government & Politics II	_	CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387).	
	District of the state of the st	3 4	CSCI 2333 POLS 2302 PHYS 2426	Computer Organization and Assembly Language U.S. & Texas Government & Politics II Life and Physical Science	_	CSCI 1370 (or CSCI 1378) or CMPE 1370 (or CMPE 1378) or CSCI 1380 (or CSCI 1387). PHYS 2425.	

	!	! H	Α	Course #	Course Title Min.	GEC Prerequisite	Additional Notes
		3	(3)	CSCI 3310	Discrete Data Structures	MATH 2413 with grade of 'C' or better; and CSCI/CMPE 1370 (or CSCI/CMPE 1378).	
		3		ELEE 2330	Digital Systems Engineering I		
	= _	1		ELEE 2130	Digital Systems Engineering I Lab	Credit/registration in ELEE 2330.	
~	FALL	3	(3)	PHYS 3303	Thermodynamics	MATH 2415 and either PHYS 2412 or PHYS 2426.	
THIRD YEA		3	(3)	PHYS 3305	Classical Mechanics	PHYS 2426 and MATH 2415.	
E		13 (9) Semester					
		3	(3)	CSCI 3333	Algorithms and Data Structures	CSCI/CMPE 2380 (or CSCI/CMPE 2388); and credit/registration for MATH 2346 or CSCI 3310 or MATH 2305.	
	SPRING	3	(3)		Software Engineering I	CSCI 2380 (or CSCI 2388) or CMPE 2380 (CMPE 2388), and 3 advanced hours in CSCI courses.	
	S	_	(4)		Modern Physics	PHYS 2426.	
	_		(3)		Advance Elective		Computational Science Elective
			(13) A	Semester Course #	Course Title Min.	GEC Prerequisite	Additional Notes
-		_	(3)	CSCI 4390	Senior Project	CSCI 3340 or CMPE 3340 and consent of instructor.	Additional Notes
		_	(3)		Database Design and Implementation	CSCI 3333 or CMPE 3333.	
		_	(3)		Advance Elective	CSCI SSSS OF CIVIFE SSSS.	Computational Science Elective
~	FALL	_	(3)		Electromagnetic Theory I	MATH 2415 and either PHYS 2426 or PHYS 2412.	Computational Science Elective
EA			(3)		Advance Elective	MATH 3341.	
Ξ	-			Semester	Advance Licetive	WATTI 3341.	
OURTH YEAR			(3)	CSCI 4345	Computer Networks	CSCI 3333 or CMPE 3333.	
т.		_	(3)	PHYS 4303	Quantum Mechanics I	PHYS 3305 and PHYS 3311.	
	- NG		(3)	CSCI X3XX	Advance Elective		Computational Science Elective
	SPRING	4	(4)		Advance Elective		
			Н				
		13	(13)	Semester			

120 TOTAL HOURS (56)

TOTAL ADVANCED HOURS

Approved: Wednesday, March 12, 2014 Revised: Friday, October 23, 2015

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; Language Proficiency Requirement: Student is required to 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 of six credits. ;090 - Science Labs; 090 - Wellness.

demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum

30 Page 2 of 2