Degree: BS in Computer Engineering Freshman 4-Year Academic Roadmap

Year 1: Freshman Year								Year Total	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Uni
CSE 2010 CS-I	Fall & Spring	[₇	CSE 1250 or instructor consent	4	CSE 2020 CS -II	Fall & Spring	[·/	CSE 2010 and MATH 2720	
		<u> </u>	Math 1401 or satisfactory score				-/		
MATH 2210 Calc I	Fall & Spring	•	on department placement exam	4	MATH 2220 Calc II		'	MATH 2210	
IVIATTI 2210 Calc I	Tan & Spring		Completion of the Quantitative	7	WATTI 2220 Calc II		 	WATTIZZIO	
NAATH 2720 B' NA II		<u> '</u>		2	G5 44 O ad Ga a a a a a a a a a a a a a a a a a		<u> </u>		
MATH 2720 Discrete Math	1	-	Reasoning GE requirement	3	GE A1 Oral Communication		_		
				3	GE A2 Written Communication				
	Semester	Total		14		Semester To	otal		
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Year 2: Sophomore Year	I- ()	1_	In				T_	Year Total	
Fall	Term(s)	Pre-req	Pre-req Course(s)	Units	Spring	Term(s)	Pre-req	Pre-req Course(s)	Units
CSE 2130 Machine Organization	Fall & Spring		CSE 2020	3	CSE 3100 Digital Logic	Fall & Spring		CSE 2020	
		·/					./	MATH 2220 and MATH	
MATH 2310 Linear Algebra	Fall & Spring		MATH 2210 and MATH 2220	4	MATH 2320 Multivariable Calc	Fall & Spring		2310	
PHYS 2500, 2500L		٠,			PHYS 2510, 2510L				
General Phys I & Lab			MATH 2210	5	General Phys II & Lab			MATH 2220 and PHYS 2500	
GE B2 Life Science				3	MATH 2265 Statistics		<u></u>	MATH 2210	
GE C1 Arts		\vdash		3	GE C2.1 Literature		Ħ		
01 01 / 11 (0	Semester	Total		18	01 0111 110144410	Semester To	ntal		
	Jemester	Total		10		Jeniester 10	otai		
Year 3: Junior Year								Year Total	
Fall	Term(s)	Pre-reg	Pre-reg Course(s)	Units	Spring	Term(s)	Pre-req		Units
CSE 4600 Operating Systems	Fall & Spring		CSE 2130	3	CSE 4030 Analog Circuits	Spring	[₇	CSE 3100 and CSE 3350	•
CSE 3350 Signals and Systems	Fall	1/7	MATH 2220 and MATH 2310	3	CSE 4560 Embedded Systems	Spring	 '	CSE 3100 and CSE 2130	
est sasa signais una systems	1 411	1/	WW.TTT EZZO GITG WW.TTT ESTO	Ť	Choose one from:	Spring	1/	CSE 3100 dild CSE 2130	
		"			CSE 4100 Network Security		<u> '</u>	SE 2020	
CCE 4040 Community Analytical and	5-II 0 C		CCE 2400 CCE 2420	2	CSE 5300 Data Com.	5-II 0 C			
CSE 4010 Computer Architecture	Fall & Spring	-	CSE 3100 and CSE 2130	3		Fall & Spring	 _	CSE 2020 and CSE 3350	1
D1 U.S. History		 -		3	D2 American Government		<u> </u>		
GE C2.2 Philosophy				3					
	Semester	Total		15		Semester To	otal		
Year 4: Senior Year								Year Total	
Fall	Term(s)	Pre-reg	Pre-reg Course(s)	Units	Spring	Term(s)	Pre-reg	Pre-reg Course(s)	Units
CSE 5208 Eng. Design I (WI)	Fall		Senior Standing	4	CSE 5408 Eng. Design II	Spring		CSE 5208	Jints
CSE 5210 Digital Design	1 411		Jenior Jeanung		Choose one from:	SPITIE .		552 5200	1
COL 3210 DIGITAL DESIGN		<u>,,</u>	CCE 4040		CSE 5350 Numerical Comp.		-/		
	1		CSE 4010		·				
	1	<u> </u>		4	CSE 4310 Algorithm Analysis	Fall & Spring		CSE 2020 and MATH 2310	<u> </u>
CSE 5410 Robotics		-/	CSE 3100 and MATH 2310	4	CSE Elective 2		LĒ		
CSE Elective 1				3	CSE Elective 3				
					GE C2.3 World Languages or				
						i			1
		_			Literature in Translation				
	Semester	Total		15	Literature in Translation	Semester To	otal		

General Education Courses

GE Ca	tegory	Courses	Designation
A1	Oral Communication		University Foundations
A2	Written Communication		University Foundations
А3	Critical Thinking		University Foundations
B1	Physical Science		Disciplinary Perspectives
B2	Life Science		Disciplinary Perspectives
В3	Lab Activity		Disciplinary Perspectives
B4	Mathematics		University Foundations
В5	Upper Division Scientific Inquiry		Disciplinary Perspectives
C1*	Arts		Disciplinary Perspectives
C2*	Literature		Disciplinary Perspectives
C2*	Philosophy		Disciplinary Perspectives
	World Languages or Literature in		
C2*	Translation		Disciplinary Perspectives
	*one choice must be upper-division	1	
D1^	U.S. History		University Foundations
D2^	American Government		University Foundations
	Social Sciences Discipline		
D3 ^	Perspectives		Disciplinary Perspectives
D4^	Upper Division Social Science		Disciplinary Perspectives
	^at least 2 disciplines must be repre	esented in D, including choices in US History &	Government
Е	Foundation Seminar		University Foundations

(WI) Writing Intensive

At least 2 courses reqd, one UD

	Diversity and Inclusiveness	
(DI)	Perspectives	At least 1 course required
(G)	Global Perspectives	At least 1 course required