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

The following is one possible sequence of courses to complete a degree in 4 years.
The Department requires that each student verify their course plan with a faculty advisor.

Year 1: Freshman Year									Year Total	28
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	
CSE 2010 CS-I	Fall & Spring	☑	CSE 1250 or instructor consent	4	CSE 2020 CS -II	Fall & Spring	☑	CSE 2010 and MATH 2720	4	
MATH 2210 Calc I	Fall & Spring	☑	Math 1401 or satisfactory score on department placement exam	4	MATH 2220 Calc II		☑	MATH 2210	4	
MATH 2720 Discrete Math		☑	Completion of the Quantitative Reasoning GE requirement	3	GE A1 Oral Communication		☐		3	
GE E Foundation Seminar	Fall & Spring	☐		3	GE A2 Written Communication		☐		3	
		☐					☐			
Semester Total				14	**Semester Total**				14	

Year 2: Sophomore Year									Year Total	33
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 2010	3	CSE 3100 Digital Logic	Fall & Spring	☑	CSE 2010 and MATH 2720	4	
MATH 2310 Linear Algebra	Fall & Spring	☑	Math 2210, Math2220 pre or co	4	PHYS 2510, 2510L General Phys II & Lab		☑	MATH 2220 and PHYS 2500	5	
PHYS 2500, 2500L General Phys I & Lab		☑	MATH 2210	5	MATH 2265 Statistics		☑	Math 2210 pre or co	3	
GE B2 Life Science		☐		3	GE C2.1 Literature		☐		3	
GE C1 Arts		☐		3						
Semester Total				18	**Semester Total**				15	

Year 3: Junior Year									Year Total	33
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	
CSE 4600 Operating Systems	Fall & Spring	☑	CSE 2130	3	CSE 4030 Analog Circuits	Spring	☑	CSE 3100 and CSE 3350	4	
CSE 3350 Signals and Systems	Fall	☑	MATH 2220 and MATH 2310	3	CSE 4560 Embedded Systems	Spring	☑	CSE 3100 and CSE 2130	4	
CSE 4010 Computer Architecture	Fall & Spring	☑	CSE 3100 and CSE 2130	4	Choose one from: CSE 4100 Network Security CSE 5300 Data Com.	Fall & Spring	☑	CSE 2020 CSE 2020 and CSE 3350	3	
GE D1 U.S. History		☐		3	GE D2 American Government		☐		3	
GE C2.2 Philosophy		☐		3	GE D4 Upper Division Social Science	Fall & Spring	☐		3	
Semester Total				16	**Semester Total**				17	

Year 4: Senior Year									Year Total	31
Fall	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	**Spring**	**Term(s)**	**Pre-req**	**Pre-req Course(s)**	**Units**	
CSE 5208 Eng. Design I (WI)	Fall	☑	Senior Standing	4	CSE 5408 Eng. Design II	Spring	☑	CSE 5208	4	
CSE 5210 Digital Design		☑	CSE 4010	4	Choose one from: CSE 5350 Numerical Comp. CSE 4310 Algorithm Analysis	Fall & Spring	☑	CSE 2020 and MATH 2310	3	
CSE 5410 Robotics		☑	CSE 3100 and MATH 2310	4	CSE Elective 2		☐		3	
CSE Elective 1		☐		3	CSE Elective 3		☐		3	
		☐			GE C2.3 World Languages or Literature in Translation		☐		3	
Semester Total				15	**Semester Total**				16	
								Degree Units Total		125

***Course may be offered in summer**

Updated: 10/14/2020 [WPC]