

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

Year 1: Freshman Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
CSE 2010 CS-I	Fall & Spring	TRUE	CSE 1250 or instructor consent	4
MATH 2210 Calc I	Fall & Spring	TRUE	Math 1401 or satisfactory score on d	4
MATH 2720 Discrete Math		TRUE	Completion of the Quantitative Reas	3
		FALSE		3
Semester Total				14

Spring	Term(s)	Pre-req	Pre-req Courses	Units
CSE 2020 CS -II	Fall & Spring	TRUE	CSE 2010, Math 2720	4
MATH 2320 Calc II		TRUE	Math 2210	4
GE A1 Oral Communication		FALSE		3
GE A2 Written Communication		FALSE		3
Semester Total				14

Year 2: Sophomore Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
CSE 2130 Machine Organization	Fall & Spring	TRUE	CSE 2020	3
MATH 2310 Linear Algebra	Fall & Spring	TRUE	MATH 2210 and MATH 2220	4
PHYS 2500, 2500L General Phys I & Lab		TRUE	MATH 2210	5
GE B2 Life Science		FALSE		3
GE C1 Arts		FALSE		3
Semester Total				18

Spring	Term(s)	Pre-req	Pre-req Courses	Units
CSE 3100 Digital Logic	Fall & Spring	TRUE	BIOL 2010	4
MATH 2320 Multivariable Calc	Fall & Spring	TRUE	CSE 2020, Math 2310	4
PHYS 2510, 2510L General Phys II & Lab		TRUE	MATH 2220 & PHYS 2500	5
MATH 2265 Statistics		TRUE	MATH 2210	3
GE C2.1 Literature		FALSE		3
Semester Total				19

Year 3: Junior Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
CSE 4600 Operating Systems	Fall & Spring	TRUE	CSE 2130	3
CSE 3350 Signals and Systems	Fall	TRUE		3
CSE 4010 Computer Architecture	Fall & Spring	TRUE	CSE 3100 and CSE 2130	3
D1 U.S. History		FALSE		3
GE C2.2 Philosophy		FALSE		3
Semester Total				15

Spring	Term(s)	Pre-req	Pre-req Courses	Units
CSE 4030 Analog Circuits	Spring	TRUE	CSE 3100 & CSE 3350	4
CSE 4560 Embedded Systems	Spring	TRUE	CSE 3100 & CSE 2130	4
CSE 4100 (Network Sec) or CSE 5300 (Da	Fall & Spring	TRUE	CSE 2020 CSE 2020 & CS	3
D2 American Government		FALSE		3
		FALSE		
Semester Total				14

Year 4: Senior Year

Fall	Term(s)	Pre-req	Pre-req Courses	Units
CSE 5208 Eng. Design I (WI)	Fall	TRUE	Senior Standing	4
CSE 5210 Digital Design		TRUE	CSE 4010	4
CSE 5410 Robotics		TRUE	CSE 3100 and MATH 2310	4
CSE Elective 1		FALSE		3
		FALSE		
Semester Total				15

Spring	Term(s)	Pre-req	Pre-req Courses	Units
CSE 5408 Eng. Design II	Spring	TRUE	CSE 5408	4
CSE 5350 (Numerical Comp) or CSE 4310	Fall & Spring	TRUE	CSE 2020 & MATH 2310	3
CSE Elective 2		FALSE		3
CSE Elective 3		FALSE		3
GE C2.3		FALSE		3
Semester Total				16

Degree Units

125