

\*The following roadmap is a sample academic planning resource. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

**College: College of Engineering and Computer Science**

**Degree: BS – Bachelor of Science**

**Major: Computer Engineering\***

Term #	Course #	Course Title	Units
1	ENGR 1	Introduction to Engineering	1
	MATH 30	Calculus I	4
	CSC 15	Programming Concepts and Methodology I	3
	ENGL 5	Accelerated Academic Literacies	3
	ENVS 10	Introduction to Environmental Science	3
		Semester Total	14
2	MATH 31	Calculus II	4
	CSC 20	Programming Concepts and Methodology II	3
	CSC 35	Introduction to Computer Architecture	3
	PHYS 11A	General Physics: Mechanics	4
	X	General Education Requirement Area A1	3
		Semester Total	17
3	CPE 64	Introduction to Logic Design	4
	CSC 60	Introduction to Systems Programming in UNIX	3
	MATH 45	Differential Equations for Science and Engineering	3
	PHYS 11C	General Physics: Electricity and Magnetism	4
	X	General Education Requirement Area D	3
		Semester Total	17
4	CSC 28	Discrete Structures for Computer Science	3
	ENGR 17	Introductory Circuit Analysis	3
	ENGL 20	College Composition II	3
	CSC 130	Data Structures and Algorithm Analysis	3
	X	General Education Requirement Area C	3
		Semester Total	15

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Term #	Course #	Course Title	Units
5	CPE 185	Computer Interfacing	4
	CPE 166	Advanced Logic Design	4
	ENGR 140	Engineering Economics	2
	EEE 117	Network Analysis	3
	EEE 117L	Network Analysis Laboratory	1
	X	American Institutions (US HIST)	3
		Semester Total	17
6	CPE 142	Advanced Computer Organization	3
	EEE 108	Electronics I	3
	EEE 108L	Electronics I Laboratory	1
	EEE 180	Signals and Systems	3
	CPE 187	Embedded Systems Design	3
	X	General Education Requirement Area C	3
		Semester Total	16
7	CPE 151	CMOS and Digital VLSI Design	3
	CSC 139	Operating System Principles	3
	ENGR 120	Probability and Random Signals	3
	CPE 190	Senior Design Project I	2
	X	General Education Requirement Area F	3
	X	American Institutions (GOVT)	3
		Semester Total	17
8	CPE 138	Computer Networking Fundamentals	3
	CPE 191	Senior Design Project II	2
	X	CPE ELECTIVE-I	3
	X	CPE ELECTIVE-II	3
	X	Upper Division General Education Requirement Area C and Writing Intensive	3
		Semester Total	14