

*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: Mechanical Engineering*

Term #	Course #	Course Title	Units
1	ENGR 6	Engineering Graphics and CADD (Computer Aided Drafting and Design)	3
	MATH 30	Calculus I	4
	CHEM 1E	General Chemistry for Engineering	4
	X	General Education Requirement Area C	3
Semester Total			14
2	MATH 31	Calculus II	4
	ME 37	Manufacturing Process	3
	ENGL 5	Accelerated Academic Literacies	3
	PHYS 11A	General Physics: Mechanics	4
	X	General Education Requirement Area F	3
Semester Total			17
3	MATH 32	Calculus III	4
	PHYS 11C	General Physics: Electricity and Magnetism	4
	ENGR 45	Engineering Materials	3
	X	General Education Requirement Area A1	3
	X	General Education Requirement Area B2	3
Semester Total			17
4	MATH 45	Differential Equations for Science and Engineering	3
	ENGR 17	Introductory Circuit Analysis	3
	ENGR 30	Analytic Mechanics: Statics	3
	ME 76	Programming and Problem Solving in Engineering	2
	ENGL 20	College Composition II	3
	X	American Institutions (US HIST)	3
Semester Total			17

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Term #	Course #	Course Title	Units
5	ENGR 110	Analytic Mechanics - Dynamics	3
	ENGR 112	Mechanics of Materials	3
	ME 116	Machinery Design I	2
	ME 106	Applications of Programming in Mechanical Engineering	1
	ME 108	Professional Topics for Mechanical Engineers	2
	ME 120	Fluid Mechanics for Mechanical Engineers	3
		Semester Total	14
6	ME 138	Concurrent Product and Process Design	3
	ME 117	Machinery Design II	2
	ME 171	Modeling and Simulation of Mechatronics and Control Systems	3
	ME 180	Mechanical Properties of Materials	3
	ENGR 124	Thermodynamics	3
	X	General Education Requirement Area C	3
		Semester Total	17
7	ME 126	Heat Transfer	3
	ME 172	Control System Design	3
	ME 190	Project Engineering I	3
	X	American Institutions (GOVT)	3
	X	General Education Requirement Area D	3
		Semester Total	15
8	ME 128	Thermal-Fluid Systems	3
	ME 191	Project Engineering II	2
	X	ME ELECTIVE	3
	X	ME ELECTIVE	3
	X	Upper Division General Education Requirement Area C and Writing Intensive	3
		Semester Total	14