

Mechanical Engineering (ME) Program of Study

		Fall Semester			Spring Semester		
		Course	Course Title	Hrs.	Course	Course Title	Hrs.
Freshman		EGR 110	Introduction to Engineering I	1	EGR 111	Introduction to Engineering II	1
		EH 101	English Composition I	3	EGR 150	Computer Methods for Engineers	3
		MA 125	Calculus I	4	EH 102	English Composition II	3
		CH 115/116	Chemistry I/Lab	3	MA 126	Calculus II	4
		ME 102	Engineering Graphics	2	PH 221/L	General Physics I/Lab	4
					SBS 1	Area IV Core Curriculum	3
			Total Credits:	14		Total Credits:	18
Sophomore		CE 210	Statics	3	ME 215	Dynamics	3
		EGR 265*	Mathematical Tools for EGR Problem Solving	4	CE 220	Mechanics of Solids	3
		ME 241	Thermodynamics I	3	CE 221	Mechanics of Solids Lab	1
		PH 222/L	General Physics II and Lab	4	ME 242	Thermodynamics II	3
		CH 117	Chemistry II	3	SBS 2	Area IV Core Curriculum	3
					MA/SCI **	Math/Science Elective	3
			Total Credits:	17		Total Credits:	16
Junior		ME 321	Introduction to Fluid Mechanics	3	ME 322	Introduction to Heat Transfer	3
		ME 364	Linear Algebra & Numerical Methods for Engineers	3	ME 360	Controls and Automation	3
		ME 370	Kinematics & Dynamics of Mach.	3	ME 361	Thermal Fluids Lab	3
		MSE 280	Engineering Materials	3	ME 371	Machine Design I	4
		HFA 1	Area II Core Curriculum	3	EE 312	Electrical Systems	3
			Total Credits:	15		Total Credits:	16
Senior		MSE 401/ME 405	Manufacturing Process	3	ME 499	Senior Design II	3
		ME 461	ME Laboratory II	3	CE 395	Engineering Economics	3
		ME 498	Senior Design I	2	ME Elective***	Thermal Fluids Elective	3
		ME Elective ***	Mechanical Systems Elective	3	ME Elective ***	Computer Aided Engineering Elective	3
		HFA2	Area II Core Curriculum	3	HFA 3	Area II Core Curriculum	3
		SBS 3	Area IV Core Curriculum	3			
			Total Credits:	17		Total Credits:	15

HFA/SBS Humanities & Fine Arts/Social & Behavioral Sciences Courses, AGSC Areas II and IV. At least one Area IV course must be in history.

* MA 227 and MA 252 can replace EGR 265 Math Tools for Engineers and an approved science or mathematics elective

** Math/Science Elective chosen from approved list of courses

*** One ME elective in each of these three areas is required: thermal-fluids, mechanical systems, and computer aided engineering.