

MECHANICAL ENGINEERING – Typical Curriculum	Term Offered	Credits		
		Fall	Winter	Spring
Freshman Year				
ME 101-- Introduction to Mechanical Engineering	Fall	3		
ENGR 112-- Programming/MATLAB	ALL			3
ENGR 248-- Engineering Graphics and 3-D Modeling-Pro-E***3	F,W,S		3	
CH 201—***1***CH202***3 CH205(lab) Chemistry for Engineering Majors	F,W	3	3,1	
MTH 251, MTH 252, MTH 254, Differential Calculus, Integral Calculus, Vector Calculus I ***1	ALL	4	4	4
PH 211, General Physics with Calculus***1	F,S			4
COMM 111 or 114 Public Speaking or Argument/Critical Discourse***1	ALL (Take any term)	3	3	3
HHS 231 & PAC Lifetime Health and Fitness	ALL (Take any term)	3	3	3
WR 121 English Composition ***1	ALL	A-G (3)	H-N (3)	O-Z (3)
Perspectives***2	ALL		3	3
Possible Credit Hours per Term		13	17	17
			TOTAL=47	
Sophomore Year				
MTH 306, MTH 256 Matrix and Power Series Methods***1, Applied Differential Equations***1	ALL (Take any term)	4	4	
PH 212, PH 213 General Physics with Calculus***1	F,W/W,S	4	4	
ENGR 211 Statics***1	ALL	3		
ENGR 213 Strength of Materials***3	ALL		3	
ENGR 212 Dynamics***1	ALL			3
ENGR 201***3, ENGR 202***3 Electrical Fundamentals	ALL/W,S		3	3
ST 314 Statistics for Engineers***3	ALL			3
WR 327 Technical Writing	ALL			3
ENGR 391 Engineering Economy & Project Management	ALL			3
Biological Science	ALL	4		
ME 250 Intro to Manufacturing Processes	ALL (Take any term)	1	1	1
Possible Credit Hours per Term		15	15	15
			TOTAL=45	
PROFESSIONAL MECHANICAL ENGINEERING (FOR NON-CO-OP)				
Junior Year				
ME 316 Mechanics of Materials	F	3		
ME 317 Intermediate Dynamics	W		4	
ME 311, ME 312 Introduction to Thermal-Fluid Sciences, Thermodynamics	W,S/S,F	4		4
ENGR 321, ENGR 322 Materials Science, Mechanical Properties of Materials	F, W/W,S	4		3
ME 331, ME 332 Introductory Fluid Mechanics, Heat Transfer	W,S/F,S		4	4
ME 382, ME 383 Introduction to Design, Mechanical Component Design	F/W	4	4	
ME 373 Mechanical Engineering Methods	W		3	
ME 451 Mechanical Laboratory	F,S			4
Possible Credit Hours per Term		15	15	15
			TOTAL=45	
Senior Year				
ME 430 Systems Dynamics and Control	F,W	4		
ME 418, ME 419 Senior Design Project (Writing Intensive Course)	F,W	4	4	
Approved Laboratory Course (ME 452, 453, 414, & 454)	W, S		4	
Restricted ME Design & Analysis Electives	ALL	4, 3	4	
EC 201/202	ALL		4	
Perspectives***2	ALL			3
Difference, Power and Discrimination	ALL			3
Synthesis***2	ALL			3, 3
Possible Credit Hours per Term		15	16	12
			TOTAL=43	

***1 Required for entry into the Professional Program.

***2 These courses must be selected to satisfy the requirements of the Baccalaureate Core.

***3 Prerequisites for several upper division courses. These are recommended for completion prior to entry into the Professional Program.

NOTE: Above is only a typical schedule for students who wish to complete the program in four years. Many students choose to complete minors, foreign exchanges, MECOP, or work while attending school and, therefore, may take longer than four years to complete the program.