

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Required Courses (128 Semester Hours)

Courses Required Outside of Engineering - General Education (53 hrs)			
CHEM 112	General College Chemistry I	5	
ENGL 160	Academic Writing I: Writing for Academic & Public Contexts	3	
ENGL 161	Academic Writing II: Writing for Inquiry & Research	3	
MATH 180	Calculus I	5	
MATH 181	Calculus II	5	
MATH 210	Calculus III	3	
MATH 220	Introduction to Differential Equations	3	
PHYS 141	General Physics I (Mechanics)	4	
PHYS 142	General Physics II (Electricity and Magnetism)	4	
PHYS 244	General Physics III (Modern Physics)	3	
Class selection can be found in pages 49-60	Exploring World Cultures	3	
	Understanding the Creative Arts	3	
	Understanding the Past	3	
	Understanding the Individual and Society	3	
	Understanding U.S. Society	3	

Courses Required in the College of Engineering (63 hrs)			
ENGR 100	Engineering Orientation	0	
CME 201	Statics	3	
CME 203	Strength of Materials	3	
CME/ME 261	Materials for Manufacturing	2	
CS 108	FORTRAN Programming for Engineers	3	
ECE 210	Electrical Circuit Analysis	3	
IE 201	Financial Engineering	3	
ME 205	Introduction to Thermodynamics	3	
ME 210	Engineering Dynamics	3	
ME 211	Fluid Mechanics I	4	
ME 250	Engineering Graphics and Design	3	
ME 308	Mechanical Vibrations	3	
ME 312	Dynamic Systems and Control	3	
ME 320	Mechanisms and Dynamics of Machinery	4	
ME 321	Heat Transfer	4	
ME 325	Intermediate Thermodynamics	3	
ME 341	Experimental Methods in Mechanical Engineering	3	
ME 380	Manufacturing Process Principles	3	
ME 396	Senior Design ^b	4	
ME 428	Numerical Methods in Mechanical Engineering	3	
ME 447	Introduction to Computer-Aided Design	3	
ME 499	Professional Development Seminar	0	

Technical Electives (9 hrs) Student must complete 9 hours from list below:			
ECE 458	Electromechanical Energy Conversion	3	
IE 342	Probability and Statistics for Engineers	3	
ME 370	Design of Machine Components	3	
ME 392	Undergraduate Research (may be repeated)	3-6	
ME 4XX	Any 400-level NOT required above	3-9	

Non-ME Elective Course (3 hrs)			

^bME 445 may be used as a substitute for ME 396; ME 444 is a prerequisite for ME 445.