

Major in Mechanical Engineering – B.S.M.E.

University Requirements:		
See University General Requirements for Baccalaureate degrees (p. 40)		<input type="checkbox"/>
First Year Making Connections Course:	Sem. Hrs.	
ENGR 1402, Concepts of Engineering (See Engineering Core Courses)	-	<input type="checkbox"/>
General Education Requirements:	Sem. Hrs.	
See General Education Curriculum for Engineering	38	<input type="checkbox"/>
Engineering Core Courses:	Sem. Hrs.	
Refer to Engineering Core Courses	27	<input type="checkbox"/>
Major Requirements: Electives denoted by an asterisk (*) must be chosen from a list of approved electives, which is available from Mechanical Engineering advisors and through the department office. All students must complete at least one thermal/fluid systems stem elective and one mechanical systems stem elective. In addition to the University requirements for all Baccalaureate Degrees, a Bachelor of Science in Mechanical Engineering requires that one of the two following conditions be met: 1. "C" or better in each course in the 56 hour major courses; OR 2. 2.5 (or greater) grade point average in the 56 hour major courses listed below.	Sem. Hrs.	
CHEM 1023, General Chemistry II	3	<input type="checkbox"/>
ENGR 2411, Mechanics of Materials Laboratory	1	<input type="checkbox"/>
ENGR 2413, Mechanics of Materials	3	<input type="checkbox"/>
ENGR 3423, Dynamics	3	<input type="checkbox"/>
ENGR 3471, Fluid Mechanics Laboratory	1	<input type="checkbox"/>
ENGR 3473, Fluid Mechanics	3	<input type="checkbox"/>
ME 2502, Solid Modeling for Mechanical Engineers	2	<input type="checkbox"/>

ME 3504, Process Monitoring and Control	4	<input type="checkbox"/>
ME 3513, Mechanical Vibrations	3	<input type="checkbox"/>
ME 3533, Engineering Thermodynamics II	3	<input type="checkbox"/>
ME 3613, Control Systems for Mechanical Engineers	3	<input type="checkbox"/>
ME 4503, Fluid and Thermal Energy Systems	3	<input type="checkbox"/>
ME 4543, Machine Design	3	<input type="checkbox"/>
ME 4553, Heat Transfer	3	<input type="checkbox"/>
ME 4563, Introduction to Manufacturing Processes	3	<input type="checkbox"/>
ME 4573, Mechanical System Design	3	<input type="checkbox"/>
ME 4613 Introduction to Mechatronics	3	<input type="checkbox"/>
PHYS 2044, University Physics II	4	<input type="checkbox"/>
*ME Electives	6	<input type="checkbox"/>
Professional Development Elective <i>This elective may be selected outside the Engineering Programs, subject only to advisor's approval. It must make a rational contribution to the student's personal and professional education goals.</i>	3	<input type="checkbox"/>
Sub-total	60	<input type="checkbox"/>
Additional Support Course:	Sem. Hrs.	
MATH 4403, Differential Equations	3	<input type="checkbox"/>
Total Required Hours:	128	