

Bachelor of Science in Mechanical Engineering[†]

Department of Aerospace and Mechanical Engineering

Mapping of Courses and Activities to Program Outcomes

<i>Program Outcomes</i>							
H = High M = Medium L = Low	Can integrate knowledge of mathematics, science, and engineering to model and analyze problems	Can use state-of-the-art resources to solve engineering problems	Can apply engineering knowledge to design and build processes and systems	Can plan experiments, analyze data, and interpret results	Can communicate effectively (oral and written)	Can function in multidisciplinary teams	Can exercise professional, ethical, and social responsibilities, and engage in life-long learning
Curriculum							
Calculus	H						
Chemistry	H			H			
Physics (141/241)	H			L/H			
ABE 221, Introduction to Computer Aided Design	H	H	L	NA	M	NA	NA
CE 214, Statics	H	L		L			
ECE 207, Elements of Electrical	H	M	M	M	M	M	
ENGR 102, Introduction to Engineering	M	L	H	H	H	H	H
ENGR 498A, Cross-disciplinary Design	M	M	H	M	H	H	M
ENGR 498B, Cross-disciplinary Design	M	M	H	H	H	H	M
MSE 331R, Fundamentals of Materials for Engineers	H	L					
AME 230, Thermodynamics	H	M	M	NA	NA	NA	NA
AME 250, Dynamics	H	M	M	NA	L	NA	NA
AME 300, Instrumentation Laboratory	M	M	M	H	H	L	L

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AME 301, Engineering Analysis	H	M	L	L	M	L	M
AME 302, Numerical Methods	H	H	M	NA	L	M	L
AME 324A, Mechanical Behavior of Engineering Materials	H	M	H	NA	NA	NA	NA
or CE 215, Mechanics of Solids	H	M	M	M	M	M	NA
AME 324B, Engineering Component Design	H	M	H	L	M	NA	L
AME 324L, Mechanics of Materials Laboratory	M	M	M	H	H		
AME 331, Introduction to Fluid Mechanics	H	NA	L	L	M	NA	M
AME 352, Dynamics of Machines	H	H	M	L	M	M	L
AME 400, Senior Mechanical Lab	M	L	L	H	H	M	M
AME 413A, Mechanical Engineering Design Laboratory I	NA	M	H	NA	L	NA	NA
AME 413B, Mechanical Engineering Design Laboratory II	L	M	H	L	L	M	NA
AME 432, Heat Transfer	H	H	M	M	L	NA	L
AME 455, Control System Design	H	M	H	L	M	NA	NA
AME 495S, Senior Colloquium	L	M	L	NA	H	L	H
Technical Electives	H	H	H	H	H	H	H
Other Educational Activities							
ENGL 101, First Year Composition					H	L	L
ENGL 102, First Year Composition					H	L	L