

Bachelor of Science in Aerospace 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			
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
MSE 331R, Fundamentals of Materials for Engineers	H	L					
AME 230, Thermodynamics	H	M	M				
AME 250, Dynamics	H	M	M		L		
AME 300, Instrumentation Laboratory	M	M	M	H	H	L	L
AME 301, Engineering Analysis	H	M	L	L	M	L	M
AME 302, Numerical Methods	H	H	M		L	M	L
AME 320, Aerodynamics	H	M	H	M-L	M-L	L	M
AME 321, Aircraft Performance	H	H	H		M	H	M

www.engineering.arizona.edu

[†] Accredited by the Engineering Accreditation Commission of ABET,
111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700

AME 323, Gasdynamics	H	M	H		M	L	L
AME 324A, Mechanical Behavior of Engineering Materials	H	M	H				
AME 324B, Engineering Component Design	H	M	H	L	M		L
AME 324L, Mechanics of Materials Laboratory	M	M	M	H	H		
AME 331, Introduction to Fluid Mechanics	H		L	L	M		M
AME 401, Senior Aerospace Lab	M	M		H	H		L
AME 420A, Aircraft Conceptual Design	M	M	H	M	H	H	H
AME 413A, Me- chanical Engineer- ing Design Laboratory I		M	H		L		
AME 422A, Aerospace Engineering Design**	M	M	H	M	H	H	H
or AME 428A, Space Mission Conceptual Design**	H	H	H	M	L	H	M
AME 413B, Mechanical Engineering Design Laboratory II	L	M	H	L	L	M	
AME 424, Introduction to Space Technologies	H	H	H	L	H	L	M
AME 425, Aerospace Propulsion	H	L	H		L		L
AME 427, Stability and Control of Aerospace Vehicles	H	M	H	L	M	H	H
AME 455, Control System Design	H	M	H	L	M		
AME 463, Finite Element Analysis with ANSYS	H	H	H	NA	L	NA	NA

AME 495S, Senior Colloquium	L	M	L		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