

Department of Mechanical Aerospace Engineering
Five Year Plan Offerings
2009 - 2014
Undergraduate

SUB	CRS	TITLE	09F	10S	10M	10F	11S	11M	11F	12S	12M	12F	13S	13M	13F	14S	14M	14F
MAE	100	Introduction to Mechanical and Aerospace Engineering	X	X		X	X		X	X		X	X		X	X		X
MAE	110	Introduction to Engineering Computer Aided Design	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	115	Introduction to Machining	X	X		X	X		X	X		X	X		X	X		X
MAE	200	Principles of Aeronautics and Astronautics	X	X		X	X		X	X		X	X		X	X		X
MAE	271	Statics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	272	Dynamics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	285	Numerical Methods and Computation I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	310	Fluid Mechanics I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	311	Principles of Measurement and Instrumentation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	341	Thermodynamics I	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	342	Thermodynamics II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	364	Kinematics and Dynamics of Machines		X	X	X	X		X	X		X	X		X	X		X
MAE	370	Mechanics of Materials	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	371	Aerospace Structures	X		X	X		X	X		X	X		X	X		X	X
MAE	378	Materials and Manufacturing Processes	X	I	X	X	I	X	X	I	X	X	I	X	X	I	X	X
MAE	385	Numerical Methods and Computation II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	395	Selected Topics in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	410	Fluid Mechanics II	X		X	X		X	X		X	X		X	X		X	X
MAE	411	Fluid Mechanics Laboratory	X		X	X	X		X	X		X	X		X	X		X
MAE	420	Compressible Aerodynamics		X	X		X	X		X	X		X	X		X	X	
MAE	430	Fundamentals of Aerodynamics	X		X	X		X	X		X	X		X	X		X	X
MAE	440	Rocket Propulsion I	X		X	X		X	X		X	X		X	X		X	X
MAE	441	Airbreathing Propulsion	X			X		X	X			X		X	X			X
MAE	449	Aerospace Laboratory	X	X		X	X		X	X		X	X		X	X		X
MAE	450	Introduction to Heat and Mass Transfer	X	X		X	X		X	X		X	X		X	X		X
MAE	455	Design of Thermal Systems		X	X		X	X		X	X		X	X		X	X	
MAE	461	Vibrations of Elastic Systems	X						X						X			
MAE	463	Intermediate Dynamics	X			X			X			X			X			X
MAE	466	Mechanics and Design of Machine Elements	X		X	X		X	X		X	X		X	X		X	X
MAE	468	Elements of Spacecraft Design		X	X		X			X	X		X			X	X	
MAE	474	Applied Mechanics of Solids		X			X			X			X			X		
MAE	476	Mechanics and Fabrication of Composite Materials																
MAE	477	Experimental Techniques in Solid Mechanics	X			X			X			X			X			X
MAE	480	Aircraft Stability and Control		X			X	X		X			X	X		X		
MAE	485	Numerical Methods and Computation III																
MAE	488	Analysis of Engineering Systems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	489	Computer-Aided Engineering	X	X		X	X		X	X		X	X		X	X		X
MAE	490	Introduction to Engineering Design	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	491	Mechanical Engineering Design ¹	X	X		X	X		X	X		X	X		X	X		X
MAE	492	Aerospace Design ¹	X	X		X	X		X	X		X	X		X	X		X
MAE	493	Rocket Design ^{1,2}	X			X			X			X			X			X
MAE	494	Aircraft Design ^{1,2}				X	X			X			X			X		
MAE	495	Selected Topics in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	496	Independent Study in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	499	Undergraduate Thesis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

¹ Either MAE 491, 492, 493 or 494 can be taken to fulfill the Senior Design requirement

² MAE 493 & 494 Require instructor permission and possibly additional pre-requisites.