

SUB	CRS	TITLE	06F	07S	07M	07F	08S	08M	08F	09S	09M	09F	10S	10M	10F	11S	11M	11F	
MAE	100	Introduction to Mechanical and Aerospace Engineering	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	X
MAE	115	Introduction to Machining	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			
MAE	271	Statics	X	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	X
MAE	285	Numerical Methods and Computation I	X	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	X
MAE	311	Principles of Measurement and Instrumentation	X	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	X
MAE	342	Thermodynamics II	X	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		
MAE	370	Mechanics of Materials	X	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		
MAE	378	Materials and Manufacturing Processes	X	I	X	X	I	X	X	I	X	X	I	X	X	I	X		
MAE	385	Numerical Methods and Computation II	X	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	X
MAE	410	Fluid Mechanics II	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		
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		
MAE	440	Rocket Propulsion I	M		X	M		X	M		X	M		X	M		X		
MAE	441	Airbreathing Propulsion	R		X	R		X	R		X	R		X	R		X		
MAE	449	Aerospace Laboratory	X	X	X	X	X	X	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	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							
MAE	463	Intermediate Dynamics				X			X						X				
MAE	466	Mechanics and Design of Machine Elements	X		X	X		X	X		X	X		X	X		X		
MAE	468	Elements of Spacecraft Design		X	X		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					X						X						
MAE	477	Experimental Techniques in Solid Mechanics	X			X			X			X			X				
MAE	480	Aircraft Stability and Control		X	R		X	R		X	R		X	R		X	R		
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	X
MAE	489	Computer-Aided Engineering		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	X
MAE	491	Mechanical Engineering Design		X	X		X	X		X	X		X	X		X	X		
MAE	492	Aerospace Design		X	X		X	X		X	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	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	X
MAE	499	Undergraduate Thesis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

SUB	CRS	TITLE	06F	07S	07M	07F	08S	08M	08F	09S	09M	09F	10S	10M	10F	11S	11M	11F	
MAE	520	Compressible Aerodynamics		X			X	X		X			X	X		X			
MAE	530	Fundamentals of Aerodynamics	X		X	X			X		X	X			X		X	X	
MAE	531	Introduction to Plasma Dynamics																	
MAE	540	Rocket Propulsion I	M		X	M		X	M		X	M		X	M		X	M	
MAE	541	Airbreathing Propulsion	R		X	R		X	R		X	R		X	R		X	R	
MAE	542	Internal Combustion Engines																	
MAE	545	Heat Distribution System Design																	
MAE	546	Solar Energy Systems																	
MAE	548	Energy Conversion and Power Generation																	
MAE	561	Vibrations of Elastic Systems	X									X							
MAE	563	Intermediate Dynamics				X			X						X			X	
MAE	568	Elements of Spacecraft Design		X			X	X		X			X	X		X			
MAE	574	Applied Mechanics of Solids		X			X			X			X			X			
MAE	576	Mechanics and Fabrication of Composite Materials					X						X						
MAE	577	Experimental Techniques in Solid Mechanics	X			X			X			X			X			X	
MAE	580	Aircraft Stability and Control		X	R		X	R		X	R		X	R		X	R		
MAE	585	Numerical Methods and Computation III																	
MAE	589	Computer-Aided Engineering		X	X		X			X	X		X			X	X		
MAE	595	Selected Topics in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	623	Computational Fluid Dynamics I	X			X			X			X			X			X	
MAE	631	Rotorcraft Design		R			R			R			R			R			
MAE	633	Missile Design		R			R			R			R			R			
MAE	635	Aerospace Systems Engineering	R			R			R			R			R			R	
MAE	639	System Safety																	
MAE	640	Rocket Propulsion II		X						X						X			
MAE	641	Advanced Thermodynamics	X			X			X			X			X			X	
MAE	643	Advanced Heat and Mass Transfer		X			X			X			X			X			
MAE	646	Combustion I				X						X						X	
MAE	647	Uncertainty Analysis in Experimentation		X			X			X			X			X			
MAE	649	Transport Phenomena		X			X			X			X			X			
MAE	651	Viscous Fluid Mechanics	X			X			X			X			X			X	
MAE	657	Helicopter Theory	R			R			R			R			R			R	
MAE	658	Rotordynamics																	
MAE	660	Structural Dynamics		X									X						
MAE	661	Advanced Dynamics					X									X			
MAE	662	Nonlinear Dynamics and Chaos																	
MAE	663	Astrodynamics						X										X	
MAE	671	Continuum Mechanics	G		G	G		G	G		G	G		G	G		G	G	
MAE	672	Elasticity	X						X						X				
MAE	673	Plasticity		X						X						X			
MAE	674	Finite Element Analysis I									X								
MAE	676	Viscoelasticity			X						X							X	
MAE	677	Optical Techniques in Solid Mechanics		X						X						X			
MAE	678	Mechanics of Composite Materials						X						X					
MAE	680	Performance Flight Testing			R			R			R			R				R	
MAE	681	Missile Trajectory Analysis			R			R			R			R				R	
MAE	683	Graduate Seminar	G	G		G	G		G	G		G	G		G	G		G	
MAE	684	Rotorcraft Systems Seminar			R			R			R			R				R	
MAE	692	Graduate Engineering Analysis I	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
MAE	693	Graduate Engineering Analysis II	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
MAE	695	Selected Topics in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

SUB	CRS	TITLE	06F	07S	07M	07F	08S	08M	08F	09S	09M	09F	10S	10M	10F	11S	11M	11F
MAE	698	Plan II Master's Paper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	699	Master's Thesis	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	723	Computational Fluid Dynamics II		X			X			X			X			X		
MAE	724	Computational Fluid Dynamics III			X			X			X			X			X	
MAE	726	Rotorcraft Computational Fluid Dynamics																
MAE	740	Aerothermodynamics																
MAE	741	Statistical Thermodynamics					X						X					
MAE	745	Combustion II					X						X					
MAE	746	Convective Heat Transfer																
MAE	748	Radiative Transfer																
MAE	749	Mass Transport																
MAE	751	Boundary Layer Theory								X						X		
MAE	752	Mechanics of Rarefied Gases																
MAE	753	Magneto-Gas Dynamics																
MAE	754	Hypersonic Flow					X						X					
MAE	755	Advanced Aerodynamics		X						X						X		
MAE	756	Numerical Simulations of Magnetohydrodynamics																
MAE	757	Optical Techniques in Fluid Mechanics																
MAE	758	Turbulence		X						X						X		
MAE	760	Analytical Methods in Nonlinear Dynamics																
MAE	765	Random Vibration of Elastic Systems			X									X				
MAE	768	Dynamics of Aerospace Vehicles																
MAE	772	Theory of Structural Stability						X									X	
MAE	773	Theory of Shells			X									X				
MAE	774	Finite Element Analysis II																
MAE	776	Theory of Finite Elasticity and Finite Viscoelasticity																
MAE	778	Fracture Mechanics				X						X						X
MAE	780	Theory of Acoustics	X						X						X			X
MAE	781	Nonlinear Effects in Plasma																
MAE	782	Plasma Turbulence																
MAE	795	Selected Topics in Mechanical and Aerospace Engineering	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MAE	799	Doctoral Dissertation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X