Department of Mechanical and Aerospace Engineering Graduate Five Year Plan Offerings 2016-2020

SUB	CRS	TITLE	16F	178	17M	17F	18S	18M	18F	198	19M	19F	208	20M	20F
MAE	540	Rocket Propulsion I	X	110	17101	X	100	X	X	100	10111	X	200	X	X
MAE	541	Airbreathing Propulsion	X		Х	Х			Х		Х	Х			X
MAE	542	Internal Combustion Engines						Offere	d on de	emand					
MAE	544	Introduction to Electric Propulsion					Х						Х		
MAE	545	Heat Distribution System Design	Offered on demand												
MAE	546	Solar Energy Systems	Offered on demand												
MAE	548	Energy Conversion and Power Generation	Offered on demand												
MAE	561	Vibrations of Elastic Systems Intermediate Dynamics	X			X			Х			Х			
MAE MAE	563 568	Elements of Spacecraft Design	X	Х		X	Х		X	Х		Х	Х		X
MAE	574	Applied Mechanics of Solids	<u> </u>	X			X			X			X		
MAE	576	Mechanics and Fabrication of Composite Materials						Offere	d on de				Α		
MAE	577	Experimental Techniques in Solid Mechanics	Offered on demand												
MAE	580	Aircraft Stability and Control	Х	Х		Х	Х		Х	Х		Х	Х		Х
MAE	585	Numerical Methods and Computation III				X						Х			
MAE	589	Computer-Aided Engineering	Х	Х		X	Х		Х						
MAE	595	Selected Topics in Mechanical and Aerospace Engineering	Х	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х
MAE	595	ST:Intro to Nuclear Propulsion		Х						Х					
MAE	610	Aerodynamics (Listed as MAE 695 prior to fall 2017)	X	.,		Х	.,		Х	.,		Х	.,		Х
MAE	620	Compressible Flow (Listed as MAE 695 prior to fall 2017)	- V	Х			Х			Х		Х	Х		
MAE MAE	623 640	Computational Fluid Dynamics I Rocket Propulsion II	X	Х		X			Х	Х		^			X
MAE	641	Advanced Thermodynamics	X	^		Х			х	^		х			X
MAE	643	Advanced Heat and Mass Transfer	X			_ ^			X						X
MAE	644	Advanced Solid Rocket Propulsion					Х						Х		
MAE	645	Combustion I				Х						х			
MAE	649	Transport Phenomena	Offered on demand												
MAE	651	Viscous Fluid Mechanics	Х			Х			Х			Х			Х
MAE	660	Structural Dynamics					Х						Х		
MAE	671	Continuum Mechanics	X	Х		X	Х		Х	Х		Х	Х		Х
MAE	672	Elasticity	X						Х						X
MAE	673	Plasticity		Х		.,				Х		.,			\vdash
MAE MAE	674 676	Finite Element Analysis I				X	Х					Х	Х		\vdash
MAE	678	Viscoelasticity Mechanics of Composite Materials					_ ^	Offere	d on de	emand			^		-
MAE	683	Graduate Seminar	Offered on demand X X X X X X X X											Х	
MAE	684	Aerospace Systems Seminar	X	Х		Х	Х		Х	Х		Х	Х		Х
MAE	685	Graduate Seminar	Х	Х		Х	Х		Х	Х		Х	Х		Х
MAE	692	Graduate Engineering Analysis I	Х			Х			Х			Х			Х
MAE	693	Graduate Engineering Analysis II		Х			Х			Х			Х		
MAE	695	Selected Topics in Mechanical and Aerospace Engineering	X	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	X
MAE	699	Master's Thesis	X	Х	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	X
MAE	723	Computational Fluid Dynamics II		Х			Х			Х			Х		
MAE	724	Computational Fluid Dynamics III		.,	X			Х		.,	Х			Х	\vdash
MAE	740	Aerothermodynamics		Х			Х			Х					\vdash
MAE MAE	741 745	Statistical Thermodynamics Combustion II					X						Х		\vdash
MAE	746	Convective Heat Transfer					_ ^	Offere	d on de	emand			^		-
MAE	748	Radiative Transfer							d on de						
MAE	749	Mass Transport							d on de						
MAE	751	Boundary Layer Theory							d on de						
MAE	752	Mechanics of Rarefied Gases						Offere	d on de	emand					
MAE	754	Hypersonic Flow	Х						Х						Х
MAE	755	Advanced Aerodynamics					Х						Х		\square
MAE	758	Turbulence	-	Х						Х					Щ
MAE	760	Analytical Methods in Nonlinear Dynamics							d on de						
MAE	762	Wave Motion of Continuous Elastic Bodies							d on de						
MAE	765	Random Vibration of Elastic Systems	-					Offere	d on de	emand					
MAE MAE	772 773	Theory of Structural Stability Theory of Shells	X	<u> </u>				Offero	d on de	mand	l				X
MAE	774	Finite Element Analysis II	Offered on demand Offered on demand												
MAE	776	Theory of Finite Elasticity and Finite Viscoelasticity							d on de						-
MAE	778	Fracture Mechanics				х		211016	J., uc			Х			\Box
MAE	780	Theory of Acoustics	Х			Ė			Х						Х
MAE	795	Selected Topics in Mechanical and Aerospace Engineering	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MAE	795	ST: Intro to Fusion Propulsion				Х						Х			
MAE	799	Doctoral Dissertation	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х