UNIVERSITY OF ALABAMA | AEROSPACE ENGINEERING AND MECHANICS | 4-YEAR COURSE OFFERINGS*

Course Number	Slash Listed	Description	FA 16	SP 17	SU 17	FA 17	SP 18	SU 18	FA 18	SP 19	SU 19	FA 19	SP 20	SU 20
AEM 120		Aerospace Sciences for Educators			X			X			X			X
AEM 121		Intro to Aerospace Engineering	X	X		X	X		X	X		X	X	
AEM 201		Statics	X	X	X	X	X	X	X	X	X	X	X	X
AEM 249		Algorithms	X	X		X	X		X	X		X	X	
AEM 250		Mechanics of Materials	X	X	X	X	X	X	X	X	X	X	X	X
AEM 251		Mechanics of Materials Laboratory	X	X	X	X	X	X	X	X	X	X	X	X
AEM 264		Dynamics	X	X	X	X	X	X	X	X	X	X	X	X
AEM 311		Fluid Mechanics	X	X	X	X	X	X	X	X	X	X	X	X
AEM 313		Aerodynamics	X	X		X			X			X		
AEM 341		Aerospace Structures	X	X		X			X			X		
AEM 349		Engineering Analysis	X	X		X			X			X		
AEM 360		Astronautics		X	X		X			X			X	
AEM 368		Flight Dynamics & Control I		X	X		X			X			X	
AEM 402		Integrated Aerospace Design I	X			X			X			X		
AEM 404		Integrated Aerospace Design II		X			X			X			X	
AEM 408	AEM 508	Propulsion Systems	X			X			X			X		
AEM 413	AEM 513	Compressible Flow		X	X		X			X			X	
AEM 414	AEM 514	Experimental Aerodynamics	X											
AEM 415	AEM 515	Micro-Aerial Vehicles							X					
AEM 416	AEM 516	Helicopter Theory					X							
AEM 420	AEM 520	CFD	X			X			X			X		
AEM 428	AEM 528	Space Propulsion					X						X	
AEM 446	AEM 546	Intermediate Solid Mechanics											X	
AEM 448	AEM 548	Stochastic Mechanics				X								
AEM 451		Structural Design & Testing		X			X			X			X	
AEM 452	AEM 552	Composite Materials		X			X							
AEM 453	AEM 553	Multi-Scale Analysis: Composites								X				
AEM 455	AEM 555	Non-Destructive Evaluation							X					
AEM 461		Comput. Meth. Aerospace Structures		X			X			X			X	
AEM 468		Flight Dynamics & Control II	X			X			X			X		
AEM 469	AEM 569	Orbital Mechanics					X						X	
ME/AEM 470**	AEM 570	Mechanical Vibration												
ME/AEM 471**	AEM 571	Fundamentals of Acoustics												
AEM 474	AEM 574	Structural Dynamics	X						X					
AEM 475	AEM 575	Fundamentals of Aeroelasticity		X						X				
AEM 482	AEM 582	Space Systems	X						X					
AEM 484	AEM 584	Space Environments				X						X		
AEM 495		Senior Seminar	X			X			X			X		
AEM 500		Intermediate Fluid Mechanics		X			X			X			X	
AEM 508	AEM 408	Propulsion	X			X			X			X		
AEM 513	AEM 413	Compressible Flow		X	X		X			X			X	
AEM 514	AEM 414	Experimental Aerodynamics	X											
AEM 515	AEM 415	Micro-Aerial Vehicles							X					

*Tentative course offerings, schedule subject to change
** Courses scheduled by ME Department

UNIVERSITY OF ALABAMA | AEROSPACE ENGINEERING AND MECHANICS | 4-YEAR COURSE OFFERINGS*

Course Number	Slash Listed	Description	FA 16	SP 17	SU 17	FA 17	SP 18	SU 18	FA 18	SP 19	SU 19	FA 19	SP 20	SU 20
AEM 516	AEM 416	Helicopter Theory					X							
AEM 520	AEM 420	CFD	X			X			X			X		
AEM 525		Spacecraft GNC	X						X					
AEM 528	AEM 428	Space Propulsion					X						X	
AEM 530		Continuum Mechanics				X						X		
AEM 535		Applied FEM		X										
AEM 546	AEM 446	Intermediate Solid Mechanics											X	
AEM 548	AEM 448	Stochastic Mechanics				X								
AEM 552	AEM 452	Composite Materials		X			X							
AEM 553	AEM 453	Multi-Scale Analysis: Composites								X				
AEM 555	AEM 455	Non-Destructive Evaluation							X					
AEM/ME 562		Intermediate Dynamics	X			X			X			X		
AEM 569	AEM 469	Orbital Mechanics					X						X	
ME/AEM 570**	AEM 470	Mechanical Vibration												
ME/AEM 571**	AEM 471	Fundamentals of Acoustics												
AEM 574	AEM 474	Structural Dynamics	X						X					
AEM 575	AEM 475	Fundamentals of Aeroelasticity		X						X				
ME/AEM 577**		Advanced Linear Controls												
ME/AEM 578**		Nonlinear Control Systems												
AEM 582	AEM 482	Space Systems	X						X					
AEM 584	AEM 484	Space Environments				X						X		
AEM 588		Advanced Space Propulsion & Power		X						X				
AEM 606		Physical Gas Dynamics	X						X					
AEM 614		Airfoil & Wing Theory				X						X		
AEM 617		Aircraft Systems					X						X	
AEM 621		Viscous Flow				X						X		
AEM 622		Turbulent Flow		X						X				
AEM 624		Hypersonic Flow		X						X				
AEM 625		Advanced CFD					X						X	
AEM 626		Unsteady Flow								X				
AEM 635		FEM	X			X						X		
AEM 637		Theory of Elasticity					X						X	
AEM 638		Intro Experimental Mechanics	X						X					
AEM 644		Engineering Fracture Mechanics										X		
AEM 648		Theory of Plasticity				X								
AEM 649		Fatigue Analysis								X				
AEM 655		Advanced Composite Materials					X						X	
AEM 662		Multi-Body Dynamics											X	
AEM 668		Advanced Dynamics of Flight		X						X				
AEM 685		Engineering Optimization										X		
GES 551		Matrix & Vector Analysis			X			X			X			X
GES 554		PDE		X	X		X	X		X	X		X	X

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