*Note: This	<mark>schedu</mark> l	Daniel Guggenho e is subject to change at any time based on instructor availability and registration demands.	eim School of Aeros For the most accurate						ster go t	t <mark>o osca</mark>	r.gatech.edu	- -					
Subject C	Course	Title	Curriculum Type		-2024 pr		2024-202 Spr	5 2025-20 Sum Fall Spr			026-2027 Spr Sur	2027-2 n Fall Sp			2028-2029 Spr Su		9-2030 Spr Sum
	2001 3001	Introduction to Mechanics (Statics) Deformable Bodies	Required Required	1	x x x x	X	X X	X X X X X X X X X X X X X X X X X X X	X	X X	X X X			X	X X	(X (X	х х х х
AE	1601	Design Competition I Introduction to AE	Elective Required	Х	x x	X	X X	X X X X		X X	X	X		X X	X	Х	X X
AE	2011	Thermodynamics and Fluids Fundamentals Fluids Fundamentals	Required Required (Bridge)	Х	x x x	X	X	X X X X X	X	X	X X	хх	Х	X	X X	(X	X X X
AE		Dynamics 3D Dynamics Agreement Syntamic Commedition II	Required (Bridge)	Х	x x x x	X	X	X X X X X	X	X	X X	хх	Х	X	X	(X	X X X
AE	2355 2610 2611	Aerospace Systems Design Competition II Introduction to Experimental Methods in Aerospace Technical Communications for Aerospace Engineers	Elective Required	Х	X X	X	X	X X X X X X X X X X X X X X X X X X X	X	X	X X	X X X	Х	X	X	(X	X X
AE	3030	Technical Communications for Aerospace Engineers Aerodynamics Structural Analysis	Required Required Required	Х	X X X X X X	X	X	X X X X X X X X X X X X X X X X X X X	X X	X X X	X	X	Х	X X	X X X X X X X X X X X X X X X X X X X	(X	x x x x x x x x x
AE	3330 3355	Introduction to Aerospace Vehicle Performance Aerospace Systems Design Competition III	Required Elective	Х	x x	X	X	x x x x x x	X	X	X X	X X X X	Х	X	X		X X X X X
AE	3530 3531	System Dynamics and Vibration Control System Analysis and Design	Required Required	Х	x x x x	X	X	X X X X X X X X X X X X X X X X X X X	X	X	X X	X X	Х	X	X X	(X	x x x x
	3610 4040	Experiments in Fluid and Solid Mechanics Computational Fluid Dynamics	Required AE Option		х	X	Х	X X		X	Х	X X		X	Х	X	Х
	4071 4080	Rotorcraft Aeromechanics Aerothermodynamics	AE Option AE Option	X X		X		X X		X X		X X		X		X X	
AE	4132 4220	Finite Element Analysis Structural Dynamics and Aeroelasticity	AE Option AE Option	+	x x		X X	X			X	X			X		X X
AE	4312	Aircraft Design I Aircraft Design II	Required (FW) Required (FW)		x x	X	X X	X X X		X	X	X		X	X	X	X
AE	4322	Space System Design I Space System Design II Petersreft Design I	Required (Space) Required (Space) Required (RC)		X X	X	X	X X X		X	X	X X X		X	X	X	X
AE	4332	Rotorcraft Design I Rotorcraft Design II Aerospace Systems Design Competition IV	Required (RC) Required (RC) Elective		x x x	X	X X X	X		X X X	X X X	X		X X	X	X X X	X
AE		Space Flight Operations Jet and Rocket Propulsion	AE Option Required		x x	X	X	x x x	Х	X	X X	Х		X	X		x x
AE	4453	Advanced Aircraft Propulsion Aircraft Flight Dynamics	AE Option Required (FW)	Х	x	X	X	X X X	X	X	X	X X		X	X	Х	X
AE		Spacecraft Flight Dynamics Introduction to Avionics Integration	Required (Space) AE Option	+	X	X	X	X X X		X	Х	X X		X	X	X X	Х
AE AE	4610 4701	Dynamics and Control Laboratory Wind Engineering	Required AE Option	Х	X X	Х	Х	X X	х	Х	X	х х	Х	Х	X	Х	X X
AE		Engineering Acoustics and Noise Control Mechanical Behavior of Composites	AE Option AE Option	X X		X X		X X		X		X X		X X		X X	
AE	4793 4803	Composite Materials and Processes Configuration Aerodynamics and Flight Performance	AE Option		X X		X	X X			X	X			X		X X
AE	4803 4803	Flight Test Engineering Introduction to Safety by Design and Accident Causation	AE Option AE Option	Х	X	х	X	X		X	X	X		Х	X	Х	X
AE	4803	Numerical Analysis and Algorithms Planetary Spacecraft Development Pohotics and Autonomy	AE Option AE Option	Х	X	X	X	X			X	X			X	X	X
AE	4803 4803 4806	Robotics and Autonomy Space Instrumentation for Life Detection Space Hardware Laboratory	AE Option AE Option AE Option	X	x	X	Х	X		X	Х	X		X	х	X	
AE	6009	Viscous Fluid Flow Turbulent Flows	PhD Quals PhD Quals	x-DL	DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-DL x-D	ıl .	x-DL	x-DL	x-DL	-DL
AE	6015	Advanced Aerodynamics Unsteady Aerodynamics	PhD Quals Elective		DL		x-DL	x-DL x-DL			x-DL	x-DL			x-DL		-DL
AE	6042	Computational Fluid Dynamics Gas Dynamics	Elective PhD Quals	X-	DL DL		x-DL	x-DL			x-DL x-DL	x-D			x-DL x-DL	X-	-DL
AE	6060	Aeroacoustics Advanced Aerodynamics for Vertical Lift	Elective Elective	X-	DL	x-DL	-	x-DL		x-DL		x-D		x-DL			-DL
	6100	Dynamics of Turbulence Structural Stability I	Elective Elective	x-DL		Х		x-DL		Х		x-DL		Х		x-DL	
AE	6115	Fundamentals of Solid Mechanics Fundamentals of Aerospace Structural Analysis	PhD Quals PhD Quals		DL DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-DL x-D	L	x-DL	x-DL		-DL
AE	6200	Structural Optimization Advanced Aeroelasticity I	Elective Elective	x-DL			x-DL	x-DL			x-DL	x-DL			x-DL	x-DL	
AE	6220	Advanced Dynamics I Rotorcraft Structural Dynamics and Aeroelasticity Structural Dynamics	PhD Quals Elective PhD Quals		DL DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-D x-DL		x-DL	x-DL		-DL -DL
AE	6310	Optimization for the Design of Engineered Systems Rotorcraft Design I	PhD Quals PhD Quals PhD Quals		DL	x-DL	x-DL	x-DL x-DL		x-DL x-DL	x-DL	x-DL x-D	L	x-DL	x-DL		-DL
AE	6334	Rotorcraft Design II Aircraft Design I	Elective PhD Quals		DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-DL x-DL	L	x-DL	x-DL		-DL
AE	6344	Aircraft Design II Orbital Mechanics	Elective PhD Quals		DL		x-DL x-DL	x-DL x-DL			x-DL x-DL	x-DL x-D			x-DL x-DL	X-	-DL -DL
AE		Planetary Entry, Descent and Landing Spacecraft Attitude Estimation and Control	Elective Elective		x-DL	_			x-DL	_			x-Dl				x-DL
AE		Satellite Orbit Determination Air Breathing Propulsion System Design I	Elective Elective	X-	DL		x-DL x-DL	x-DL			x-DL x-DL	x-D			x-DL x-DL		-DL
AE	6372	Safety by Design Aerospace Systems Engineering	Elective Elective	x-DL	x-DL x-DL	. x-DL		x-DL x-DL	x-DL	x-DL	x-D	x-DL	x-Dl	x-DL		x-DL	x-DL
AE	6373 6383	Advanced Design Methods I Applied Design Laboratory	Elective Elective	x-DL x-DL		x-DL x-DL		x-DL x-DL		x-DL x-DL		x-DL x-DL		x-DL x-DL		x-DL x-DL	
AE	6393 6394 6410	Introduction to System of Systems Engineering Principles System of Systems Engineering Applications Combustion Dynamics	Elective Elective Elective	x-DL x-	DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-DL x-D	L	x-DL	x-DL	x-DL x-	-DL
AE	6412	Turbulent Combustion Rocket Propulsion	Elective Elective	X-	DL		x-DL	x-DL			x-DL	x-D	L		x-DL	X-	-DL
AE	6451 6503	Electric Propulsion Rotorcraft Stability and Control	Elective Elective	x-DL		x-DL				x-DL	N D L			x-DL	, , , , , , , , , , , , , , , , , , ,		
AE	6505	Random Processes and Kalman Filtering Optimal Guidance and Control	Elective Elective	x-DL	DL			x-DL x-DL		X 2 2		x-DL	L			x-DL	-DL
AE AE	6512 6520	Mathematical Principles of Planning and Decision-Making for Autonomy Advanced Flight Dynamics	Elective PhD Quals	X X-	DL DL		x-DL	x x-DL		Х	x-DL	x x-D		Х	x-DL	X-	x -DL
AE	6551	Multivariable Linear Systems and Control Cognitive Engineering	PhD Quals Elective	x-DL		x-DL x-DL		x-DL		x-DL x-DL		x-DL		x-DL x-DL		x-DL	
AE	6701	Nonlinear Control Wind Engineering	PhD Quals Elective	X-	DL x-DL		x-DL		x-DL		x-DL	<u> </u>	L x-Dl		x-DL	X-	-DL x-DL
AE	6705 6721 6760	Introduction to Mechatronics Evaluation of Human Integrated Systems Acoustics I	Elective Elective Elective	x x-DL x-DL		x-DL		x x-DL x-DL		x-DL		x-DL x-DL		x-DL		x-DL x-DL	
AE	6761	Acoustics I Acoustics II Applied Acoustics	Elective Elective		DL	χ-DL	x-DL	X-DL x-DL		λ-DL	x-DL	X-DL x-D	L	オーレレ	x-DL		-DL
AE	6765	Kinetics and Thermodynamics of Gases Combustion	PhD Quals PhD Quals	x-DL x-	DL DL	x-DL	x-DL	x-DL x-DL		x-DL	x-DL	x-DL x-D	L	x-DL	x-DL	x-DL x-	-DL
AE	6769	Linear Elasticity Robotics Professional Preparation I	Elective Elective	 	X	X	X	X		х	Х	X		Х	X	X	Х
AE AE	7742 7743	Robotics Professional Preparation II Robotics Professional Preparation III	Elective Elective	1	х	X	Х	X		X	Х	X		X	Х		х
AE		Fundamentals of Fracture Mechanics Fatigue of Materials and Structures	Elective Elective		x x	Х	X X	X X		Х	X X	X X		Х	X X	- - - - - - - - - - - - - -	X X
AE	7785 8002	Introduction to Robotics Research AE Graduate Seminar Relation Constant Project	Elective Required	Х	X X	X	X	X		X	X	X		X	X	Х	X X
AE	8750	Robotics Capstone Project Robotics Research Foundation I	Elective Elective	Х	X X	X	X	X X X X X X X X X X X X X X X X X X X		X	X	X		X	X	X	X
AE		Robotics Research Foundation II Bioastronautics Advanced Nonlinear Control	Elective Elective Elective	X	X	X	X	X X		X	X	X X		X	X	X	X
AE	8813	Advanced Nonlinear Control Aerospace Propulsion Laboratory Airline Revenue Management	Elective Elective	X	x	X	X	X		X	Х	X		X	X	X	х
AE	8803 8803	Hamiltonian Mechanics in Space Dynamics Hydrokinetic Turbine Systems	Elective Elective	X			x-DL	X			x-DL	X		1	x-DL	X	
AE	8803 8803	Intelligent Cyber Physical Systems Logistical Planning Methods and Their Application in Space Mission Design	Elective Elective	Y-	DL		x-DL x-DL	x-DL			x-DL	x-D	L		x-DL	У-	-DL
AE	8803 8803	Low Gravity Fluid Mechanics Model Reduction	Elective Elective		X	x-DL		X		x-DL		X		x-DL			X
AE AE	8803 8803	Numerical Analysis and Algorithms Optical Navigation	Elective Elective		DL		x-DL	x-DL			x-DL	x-D			x-DL	X X-	-DL
AE AE		Optimal Transport Theory and Applications Optimization Based Learning Control and Games	Elective Elective	x-DL		x-DL	x-DL	x-DL		x-DL	x-DL	x-DL		x-DL	x-DL	x-DL	
AE	8803 8803	Planetary Spacecraft Development Rotorcraft Aeromechanics	Elective Elective	x x-DL		x-DL		x x-DL		x-DL		x x-DL		x-DL		x x-DL	
AE		Smart Cities Workshop Space Instrumentation for Life Detection Space Instrumentation for Life Detection	Elective Elective	x-DL x-	DL	x-DL	x-DL	x-DL		x-DL	x-DL	x-DL		x-DL	x-DL	x-DL	
AE	8883	Spacecraft Engineering I Spacecraft Engineering II	Elective Elective			X	x	X		Х	V	X		X	Y	Х	