

School of Aeronautics and Astronautics

COLLEGE OF ENGINEERING

AAE Engineeri	ing Major Courses (5	ó cre	dits)					
(0)	AAE 20000 - Undergrad	Sopl	omore Seminar					
(3)	AAE 20300++ - Aerome	chani	cs I					
(3)	AAE 25100 – Intro Aero	врасе	Design					
(3)	AAE 20400++ - Aerome	chani	cs II					
(1)	AAE 20401 - Aeromecha	nics	II Lab					
(0)	AAE 2000 - Undergrad Sophomore Seminar AAE 20300++ - Aeromechanics I AAE 25100 - Intro Aerospace Design AAE 20400+ - Aeromechanics II AAE 20401 - Aeromechanics II Lab AAE 30000 - Undergrad Junior Seminar AAE 30100 - Signals Analysis AAE 33300 - Fluid Mechanics AAE 33301 - Fluid Mechanics AAE 33301 - Fluid Mechanics AAE 33400 - Aerodynamics AAE 33401 / AAE 35201 - Aerodynamics Lab/ Structural Analysis Lab AAE 34000 - Dynamics and Vibrations AAE 33800/33900 - Thermal Sciences/Aerospace Propulsion AAE 35200 - Structural Analysis I AAE 36400 - Control System Analysis AAE 36401 - Control System Laboratory AAE 40000 - Undergrad Senior Seminar AAE 40000 - Flight Dynamics & Control/Spacecraft Attitude Dynamics (Spring only) AAE 45000/45100 - Spacecraft Design/Aircraft Design AAE Specialization AAE Selectives							
(3)	AAE 30100 - Signals Analysis							
(3)	AAE 33300 - Fluid Mech	anics	;					
(1)	AAE 33301 – Fluid Mech	anics	Lab					
(3)	AAE 33400 – Aerodynan	nics						
(1)	AAE 33401/AAE 35201	- Aer	odynamics Lab/ Structura	al Analysis Lab				
(3)	AAE 34000 – Dynamics	and V	ibrations					
(3)	AAE 33800/33900 - The	erma	Sciences/Aerospace Prop	pulsion				
(3)	AAE 35200 – Structural	Analy	rsis I					
(3)	AAE 36400 – Control Sys	tem	Analysis					
(1)	AAE 36401 – Controls Sy	sten	is Laboratory					
(1)	AAE 40000 – Undergrad	Seni	or Seminar					
(3)	AAE 42100/44000 - Flig	tht D	ynamics & Control/Spaced	craft Attitude Dynamics (Spring only)				
(3)	AAE 45000/45100 - Spa	cecr	aft Design/Aircraft Design					
(9)	AAE Specialization							
(6)	AAE Selectives							
(2) (4) (3) (3) (2) (2) (2) (3) (4/5) (4/5) (4/5) (4) (3) (3) (3) (3) (3) (4) (3/4) (6) (12) (3) (3)	CGT 16300 - Graphical CHM 11500++* - Gene Oral Communication++ CS 15900/17700/1800 ENGR 13100++* - Trans Written Communicatio MA 16500/16100++* - MA 16600/16200++* - MA 26100++* - Calculum A 26500* - Linear Al MA 26600* - Ordinary MA 30300 - Differentia ME 20000 - Thermody PHYS 17200++* - Mod	Com ral CH ral CH * (CC 0++ sform n++* Calc Calc ss III gebra Diffe I Equ nami cElectr s tives	- Computer Programming ming Ideas to Innovation I ling Ideas to Innovation II (ENGL 10600/ENGL 1080 ulus I (Satisfies FYE requirulus II (Satisfies FYE requirulus II equations and Partial Differences (Satisfies FYE reicity Optics/E&M Interact	nalysis quirement) ch Communication PREFERRED)(Satisfies c (CS 15900 satisfies FYE requirement) (Satisfies FYE requirement) (Satisfies FYE requirement) 00 – Written Composition PREFERRED)(Seement) rement) rement)				
								
•	re Requirements*							
Human Cultures I			General Education++	Science, Technology & Society Selective				
	Behavioral/Social Science		General Education++	Written Communication		ENGL 10600/10800++		
Information Liter	acy		ENGR 13100++	Oral Communication		COM 11400++		
Science Selective			PHYS 17200++	Quantitative Reasoning		MA 26500		
Science Selective			CHM 11500++					

⁺⁺Critical Courses ("C-" or better required)

^{*}Satisfies a University Core Requirement

Aeronautical and Astronautical Engineering

Suggested Arrangement of Courses:

Credits	Fall 1 st Year	Prerequisites	Credits	Spring 1 st Year	Prerequisites
5/4	MA 161/16500++*	85 ALEKS or SAT/ACT	5/4	MA 16200/16600++*	Calc 1
4	CHM 11500++*	75 ALEKS or SAT/ACT	4	PHYS 17200++*	Calc 1 co-req
3-4	Written Communication	Selective++*	3	CS 15900++	ENGR 131 co-req
2	ENGR 13100++*	FYE Major	2	ENGR 13200++	FYE Major; ENGR 131
			3	Oral Communication Selecti	ive++*
13-14			16		

Credits	Fall 2 nd Year	Prerequisites	Credits	Spring 2 nd Year	Prerequisites
3	AAE 20300++	PHYS 172; Calc III co-req	3	AAE 20400++	AAE 203
3	AAE 25100	ENGR 132; co-reqs CGT 163, AAE 200, CS 159	1	AAE 20401	AAE 204 co-req
4	MA 26100++*	Calc II	3	PHYS 24100	PHYS 172
3	UCC Humanities++* (General Education I)		3	MA 26600*	MA 261
3	MA 26500*	Calc III co-req	3	ME 20000	CHM 115; MA 261 co-req; ENGR 132 co-req
0	AAE 20000	Major: Soph	3	UCC Behavioral/Social Scie (General Education II)	nce++*
2	CGT 16300	ENGR Major			
18			16		

Credits	Fall 3 rd Year	Prerequisites	Credits	Spring 3 rd Year	Prerequisites
3	AAE 33300	AAE 203; AAE 200; AAE 251 co-req; MA 303/304 co-req	3	AAE 33400	AAE 333; AAE 33301; ME 200
1	AAE 33301	AAE 333 co-req	1	AAE 33401 OR AAE 35201	AAE 334 or 352 co-req
3	AAE 35200	AAE 204; AAE 20401; AAE 200; AAE 251 co-req	3	AAE 34000	AAE 203; MA 304
3	MA 30300	MA 265 & MA 266	3	AAE 36400	AAE 301
3	AAE 30100	AAE 200; MA 265; MA 266; AAE 251 co-req	3	AAE 33800 OR AAE 33900	AAE 200; ME 200; AAE 334 co-req
3	General Education III++		3	General Education IV++ (could satisfy UCC STS*)	
0	AAE 30000	AAE 200			
16			16		

Credits	Fall 4 th Year	Prerequisites	Credits	Spring 4 th Year	Prerequisites
3	Technical Elective		3	AAE 44000 OR 42100	AAE 340; AAE 300, AAE 364
1	AAE 36401	AAE 364	3	AAE 45000 OR 45100	AAE 334; AAE340; AAE 352; AAE 364; AAE 400 co-req
6	Specialization/AAE Selectives			Specialization/AAE Selectives	
3	Business Rule or General Education VI++			Communications Rule++	
3	Technical Elective (could satisfy UCC STS*)				
1	AAE 40000	AAE 300			
17			18		=130-131

⁺⁺Critical Courses ("C-" or better required)

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