

School of Aeronautics and Astronautics

COLLEGE OF ENGINEERING

	g Major Courses (56 o						
(0) A	AE 20000 – Undergrad S	ophomo	ore Seminar				
(3) A	AE 20300++ - Aeromech	anics I					
(3) A	AE 25100 – Intro Aerosp	ace Des	ign				
(3) A	AE 20400++ - Aeromech	anics II					
(1) A	AE 20401 – Aeromechan	ics II La	b				
(0) A	AE 30000 – Undergrad Ju	ınior Se	minar				
(3) A	AE 30100 – Signals Analy	/sis					
(3) A	AE 33300 – Fluid Mechar	nics					
(1) A	AE 33301 – Fluid Mechar	nics Lab					
(3) A	AE 33400 – Aerodynamio	cs					
(1) A	AE 33401/AAE 35201 – A	Aerodyı	namics Lab/ Structura	al Analysis Lab			
(3) A	AE 33800/33900 - Theri	mal Scie	ences/Aerospace Prop	oulsion			
(3) A	AE 34000 – Dynamics an	d Vibra	tions				
(3) A	AE 35200 – Structural Ar	nalysis I					
(3) A	AE 36400 - Control Syste	em Anal	ysis				
(1) A	AE 36401 – Controls Syst	tems La	boratory				
(1) A	AE 40000 – Undergrad S	enior Se	eminar				
(3) A	AE 42100/44000 – Fligh	t Dynan	nics & Control/Spaced	craft Attitude Dynamics (Sp	oring only)		
(3) A	AE 45000/45100 – Space	ecraft D	esign/Aircraft Design				
(9) A	AE Specialization		0,				
(6) A	AE 20300++ - Aeromech AE 25100 - Intro Aerosp AE 20400++ - Aeromech AE 20401 - Aeromechan AE 30000 - Undergrad Ju AE 30100 - Signals Analy AE 33300 - Fluid Mechan AE 33301 - Fluid Mechan AE 33400 - Aerodynamic AE 33401/AAE 35201 - A AE 33800/33900 - Thero AE 34000 - Dynamics an AE 35200 - Structural Ar AE 36401 - Control Syste AE 40000 - Undergrad So AE 42100/44000 - Fligh AE 45000/45100 - Space AE Specialization AE Selective						
(4) (3) (3) (2) (2) (3) (4/5) (4/5) (4/5) (4) (3) (3) (3) (3) (3) (4) (3/4) (3) (3) (3) (3) (3) (12)	CS 15900/17700/18000- ENGR 13100++* – Transfo ENGR 13200++ – Transfo Written Communication+ MA 16500/16100++* – C MA 16600/16200++* – C MA 26100++* – Calculus MA 26500* – Linear Alge MA 26600* – Ordinary Di MA 30300 – Differential I ME 20000 – Thermodyna PHYS 17200++* – Moder PHYS 24100/27200 – Ele AAE Technical Electives Statistics Selective General Education Elective	l Chemi (COM 1 ++ - Cor forming b r+* (EN alculus alculus III bra ifferenti Equatio amics n Mecha ectricity	stry I (Satisfies FYE re 1400 – Fund. Of Speed mputer Programming Ideas to Innovation I deas to Innovation II GL 10600/ENGL 1080 I (Satisfies FYE requir II (Satisfies FYE requir ital Equations and Partial Differen	equirement) ch Communication PREFEI ch Communication PREFEI ch Communication PREFEI ch Communication PREFEI ch Communication Preference ch Communication I ch C	quirement) ;)) PREFERRED)(Satisj		
	AAE Gusiness Rule++	,					
(3)	AAE Communications Ru	1e++					
University Core	Requirements*	••••	•••••		• • • • • • • • • • • • • • • • • • • •		
Human Cultures Hu	manities	□ Ge	neral Education++	Science, Technology & So	ciety Selective	\Box	General Education++
Human Cultures Bel	havioral/Social Science	□ Ge	neral Education++	Written Communication		\Box	ENGL 10600/10800++
Information Literac	y	\Box EN	GR 13100++	Oral Communication			COM 11400++
Science Selective							
Science Selective			M 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
2	ENGR 13100++*	FYE Major	3	CS 15900++	ENGR 131 co-req
4	CHM 11500++*	75 ALEKS or SAT/ACT	2	ENGR 13200++	FYE Major; ENGR 131
5/4	MA 161/16500++*	85 ALEKS or SAT/ACT	5/4	MA 16200/16600++*	Calc 1
3-4	Written Communication	Selective++*	4	PHYS 17200++*	Calc 1 co-req
			3	Oral Communication Selective++*	
13-14			16		

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

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

Credits	Fall 4 th Year	Prerequisites	Credits	Spring 4 th Year	Prerequisites
1	AAE 36401	AAE 364	3	AAE 44000 OR 42100	AAE 340; AAE 300; AAE 364 co-reg
1	AAE 40000	AAE 300	3	AAE 45000 OR 45100	AAE 334; AAE 340; AAE 352; AAE 364; AAE 400 co-req; AAE 339; or [AAE 439 + AAE 438 co-reqs]
6	AAE Engr Specialization/AAE Selectives			AAE Engr Specialization/AAE Selectives	
3	Business Rule or General Education VI++		3	Communications Rule++	
3	Technical Elective (could satisfy UCC STS*)				
3	Statistics Selective				
17			18		=130-131

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