NAME:	-	AEROSPACE ENGIN	IEERIN
UID: A.A A.S	Post-Bac		
GENERAL EDUCATION REQUIREMENTS		MAJOR REQUIREMENTS	
Fundamental Studies		ENAE 100 - Aerospace Eng Profession	1
Academic Writing (AW) ENGL 101	3	ENAE 200 - Aerospace Eng Profession II	1
Professional Writing (PW) ENGL 39X	3	ENAE 202 - Aerospace Computing	3
Oral Communication (OC)	3	ENAE 283 - Intro to Aerospace Systems	3
Distributive Studies		ENAE 301 - Dynamics of Aero Systems	3
History/Social Sciences (HS*)	3	ENAE 311 - Aerodynamics I	3 3 4
History/Social Sciences (HS*)	3	ENAE 324 - Aerospace Structures	4
Humanities (HU*)	3	ENAE 362 - Aero Instrumentation & Exp.	3
Humanities (HU*)	3	ENAE 380 - Flight Software Systems	3
Scholarship in Practice (SP*) out of major	3	ENAE 423 - Vibration & Aeroelasticity	3
I-Series Courses		ENAE 432 - Control of Aero. Systems	3
I-Series (IS*)	0/3	ENAE 464 - Aerospace Eng Lab	3
I-Series (IS*)	0/3	ENAE 4XX** or	3
Diversity		ENAE 398H - Honors Research**	1/1/1
Understanding Plural Societies (UP*)	0/3		
Understanding Plural Societies (UP*) OR	0/3	Technical Requirements	
Cultural Competency (CC*)	0,3	Technical Elective - 4XX**	3
MAJOR REQUIREMENTS			
Basic Sciences		Choose one of the following tracks:	
CHEM 135-Chem Engr or 131 & 134 -Fund & Prin	3/3&1	Aeronautical Track:	
PHYS 161 - General Physics I (NS)	3	ENAE 403 - Aircraft Flight Dynamics	3
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)	3 & 1	· · · · · · · · · · · · · · · · · · ·	3
PHYS 270 and PHYS 271 - Gen Physics III & Lab	3 & 1		3
MATH 140 - Calculus I (MA/AR)	4	ENAE 481 - Principles of Aircraft Design	3
MATH 141 - Calculus II	4	ENAE 482 - Aeronautical Systems Design	3
MATH 240 or MATH 461 - Linear Algebra	4 or 3	Astronautical Track:	
MATH 241 - Calculus III	4	ENAE 404 - Space Flight Dynamics	3
MATH 246 - Differential Equations	3	ENAE 441 - Space Navigation & Guidance	3
Engineering Sciences		ENAE 457 - Space Propulsion & Power	3
ENES 100 - Intro to Eng Design (SP)	3	ENAE 483 - Princ. of Space Systems Design	3
ENES 102 - Mechanics I	3	ENAE 484 - Space Systems Design	3
ENES 220 - Mechanics II	3		
ENES232 - Thermodynamics	3	Requirements for Graduation:	
		Final 30 credits must be earned at LIMD	

* May	satisfy	more than	one requi	irement. Se	ee www.ge	ned.umd.edu
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For Degree Clearance Only		
Degree: B.S. ENAE	Advisor:	
Date:	Credits/GPA :	

Requirements for Graduation:
Final 30 credits must be earned at UMD
15 of the final 30 credits must be earned at the 300-400 level
12 of the final 30 credits must be upper level major coursework
A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation
Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all
major requirements, minor requirements, and undergraduate certificate requirements
(Major courses are defined as: departmental courses, basic sciences, engineering
sciences, specified degree tracks, technical requirements/ electives and
Professional Writing (PW)
A minimum of 124 credits is required to earn the degree

^{**}See Aerospace Advisor for appropriate electives: www.aero.umd.edu

Aerospace Engineering Four Year Academic Plan

Name:______ UID:_____

Year 1		Fall	
Gateway requirements include:	Course	Credit	Grade
ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved	ENAE 100	1	
Distributive Studies course.	ENES 100 (SP)	3	
(Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM	MATH 140 (AR)	4	
	CHEM 135	3	
credits.)	ENGL 101 (AW)	3	
	Total	14	

	Spring		
Course	Credit	Grade	
ENAE 202	3		
ENES 102	3		
MATH 141	4		
PHYS 161 (NS)	3		
Hist & Social Sciences(HS)*	3		
Total	16		

Year 2		Fall		
	Course	Credit	Grade	
	ENES 220	3		
	ENAE 283	3		
	MATH 241	4		
	PHYS 260 and PHYS 261 (NL)	3 & 1		
	ORAL COMM (OC)	3		
	Total	17		

Spring		
Course	Credit	Grade
ENAE 200	1	
ENES 232 or ENME 320	3	
MATH 240 or MATH 461	4 or 3	
MATH 246	3	
PHYS 270 and PHYS 271	3 & 1	
Hist & Social Sciences(HS)*	3	
Total	17 or 18	

Year 3	Fall		
	Course	Credit	Grade
	ENAE 301	3	
	ENAE 311	3	
	ENAE 362	3	
	ENAE 380	3	
	Scholarship in Practice (SP)*	3	
	Total	15	

	Spring				
Course	Course Credit Grade				
ENAE 324	4				
ENAE 404 or ENAE 414	3				
ENAE 432	3				
Professional Writing (PW)	3				
Humanities (HU)*	3				
Total	16				

Year 4	Fall		
	Course	Credit	Grade
	ENAE 403 or ENAE 441	3	
	ENAE 423	3	
	ENAE 455 or ENAE 457	3	
	ENAE 481 or ENAE 483	3	
	Humanities (HU)*	3	
	Total	15	

	Spring		
Course	Credit	Grade	
ENAE 464	3		
ENAE 482 or ENAE 484	3		
ENAE Elective	3		
Technical Elective	3		
Gen Ed/Elective	3		
Total	15		

^{*}All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.