

NAME: _____

AEROSPACE ENGINEERING

UID: _____ A.A. ___ A.S. ___ Post-Bac

GENERAL EDUCATION REQUIREMENTS

Fundamental Studies

Academic Writing (AW)	ENGL 101		3
Professional Writing (PW)	ENGL 39X		3
Oral Communication (OC)			3

Distributive Studies

History/Social Sciences (HS*)			3
History/Social Sciences (HS*)			3
Humanities (HU*)			3
Scholarship in Practice (SP*) out of major			3

I-Series Courses

I-Series (IS*)			0/3
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Diversity

Understanding Plural Societies (UP*)			0/3
Understanding Plural Societies (UP*) OR Cultural Competency (CC*)			0/3

MAJOR REQUIREMENTS

Basic Sciences

CHEM 135-Chem Engr or 131 & 134 -Fund & Prin			3/3&1
PHYS 161 - General Physics I (NS)			3
PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL)			3 & 1
PHYS 270 and PHYS 271 - Gen Physics III & Lab			3 & 1
MATH 140 - Calculus I (MA/AR)			4
MATH 141 - Calculus II			4
MATH 240 or MATH 461 - Linear Algebra			4 or 3
MATH 241 - Calculus III			4
MATH 246 - Differential Equations			3

Engineering Sciences

ENES 100 - Intro to Eng Design (SP)			3
ENES 102 - Mechanics I			3
ENES 220 - Mechanics II			3
ENES232 - Thermodynamics			3

MAJOR REQUIREMENTS

ENAE 100 - Aerospace Eng Profession			1
ENAE 200 - Aerospace Eng Profession II			1
ENAE 202 - Aerospace Computing			3
ENAE 283 - Intro to Aerospace Systems			3
ENAE 301 - Dynamics of Aero Systems			3
ENAE 311 - Aerodynamics I			3
ENAE 324 - Aerospace Structures			4
ENAE 362 - Aero Instrumentation & Exp.			3
ENAE 380 - Flight Software Systems			3
ENAE 423 - Vibration & Aeroelasticity			3
ENAE 432 - Control of Aero. Systems			3
ENAE 464 - Aerospace Eng Lab			3
ENAE 4XX** or			3
ENAE 398H - Honors Research**			1/1/1
ENES 200 or ENEE 200- Tech & Consequences (HU/IS)			3

Technical Requirements

Technical Elective - 4XX**			3
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Choose one of the following tracks:

Aeronautical Track:

ENAE 403 - Aircraft Flight Dynamics			3
ENAE 414 - Aerodynamics II			3
ENAE 455 - Aircraft Propulsion & Power			3
ENAE 481 - Principles of Aircraft Design			3
ENAE 482 - Aeronautical Systems Design			3

Astronautical Track:

ENAE 404 - Space Flight Dynamics			3
ENAE 441 - Space Navigation & Guidance			3
ENAE 457 - Space Propulsion & Power			3
ENAE 483 - Princ. of Space Systems Design			3
ENAE 484 - Space Systems Design			3

* May satisfy more than one requirement. See www.gened.umd.edu
 **See Aerospace Advisor for appropriate electives: www.aero.umd.edu

For Degree Clearance Only

Degree: B.S. ENAE	Advisor: _____
Date: _____	Credits/GPA: _____

Requirements for Graduation:

<input type="checkbox"/>	Final 30 credits must be earned at UMD
<input type="checkbox"/>	15 of the final 30 credits must be earned at the 300-400 level
<input type="checkbox"/>	12 of the final 30 credits must be upper level major coursework
<input type="checkbox"/>	A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation
<input type="checkbox"/>	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))
<input type="checkbox"/>	A minimum of 124 credits is required to earn the degree

Aerospace Engineering Four Year Academic Plan

Name: _____

UID: _____

Year 1	Fall		
https://lep.umd.edu/	Course	Credit	Grade
	ENAE 100	1	
	ENES 100 (SP)	3	
	MATH 140 (AR)	4	
	CHEM 135	3	
	ENGL 101 (AW)	3	
	Total	14	

Spring		
Course	Credit	Grade
ENAE 202	3	
ENES 102	3	
MATH 141	4	
PHYS 161 (NS)	3	
ORAL COMM (OC)	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	
	ENES/ENEE 200 (HU/I-Series)	3	
	Total	17	

Spring		
Course	Credit	Grade
ENAE 200	1	
ENES 232	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 or ENAE414**	3	
	ENAE 362	3	
	ENAE 380	3	
	Scholarship in Practice (SP)*	3	
	Total	15	

Spring		
Course	Credit	Grade
ENAE 324	4	
ENAE 404 or ENAE 311***	3	
ENAE 432	3	
Professional Writing (PW)	3	
Hist & Social Sciences(HS)*	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	

Plural Societies (UP) and Cultural Competence (CC) courses may also fulfill Distributive Studies categories.

**Select ENAE414 for Aero track, select ENAE311 for Astro track

***Select ENAE311 for Aero track, select ENAE404 for Astro track