

# Aerospace Engineering - Bachelor of Science Curriculum ~ (Catalog Year: 2016-2018)

*Although this is a suggested outline - All courses listed below are **REQUIRED** for this degree. Refer to the Undergraduate Catalog for verification*

**Student's Name:** \_\_\_\_\_ **UFID:** \_\_\_\_\_ **Today's Date:** \_\_\_\_\_

①The tracking courses for MAE are: MAC2311, MAC2312, MAC2313, MAP2302, PHY2048, PHY2049, CHM2045 & Sci Elec: (CHM2046, BSC2010, PHY3101 or AST3018/3019) ②All undergraduate students (except those transferring to UF with an A.A. degree from a Florida State/Community College or University) are required to satisfy: 15cr-Humanities/Social Science(H/SS); 3cr-Diversity(D); 3cr-International(N). {Some (D/N) courses will double count with H/SS courses, check the undergraduate catalog for further explanation, under "General Education Requirement"}. ③Writing Requirement-24,000 words(WR). ④Summer Requirement-9cr {Must be taken at any State of Florida University not State/Community Colleges}. ⑤\*asterisk-(tracking course) or #hashtag-(MAE core) ~ (requires a Grade of "C" or better).

✓	Course Prefix and Number	Cr	Course Title	Projected Offer	Pre-Requisites
<b>Semester 1 (15cr)</b>					
	CHM 2045/2095 *(Tracking course "C" required)	3	General Chemistry 1 / Chemistry for Engineers 1 (GE - P)	F S Su	Chemistry Readiness Assessment
	CHM 2045L	1	General Chemistry Lab 1 (GE - P)	F S Su	
	MAC 2311 *(Tracking course "C" required)	4	Analytical Geometry & Calculus 1 (GE - M)	F S Su	Mathematics Placement Exam (ALEKS)
	GE - C	3	Composition - [WR-6000]	F S Su	ACT/SAT scores do not exempt this requirement
	IUF 1000	3	What Is The Good Life (GE - H)	F S Su	All incoming freshmen w/out an AA degree
	EML 2920	1	Departmental & Professional Orientation	F S	
<b>Semester 2 (17cr)</b>					
	MAC 2312 *(Tracking course "C" required)	4	Analytical Geometry & Calculus 2 (GE - M)	F S Su	MAC2311
	PHY 2048 *(Tracking course "C" required)	3	Physics with Calculus 1 (GE - P)	F S Su	MAC2311
	PHY 2048L/2053L	1	Physics Lab 1 (GE - P)	F S Su	
	EML 2023	3	Computer Aided Graphics & Design (Laptop required)	F S Su	
	ENC 3246	3	Professional Communication for Engineers - (GE - C) [WR-6000]	F S Su	ENC1101 or test score equivalency
	Science Elective (Pick 1) *(Tracking course "C" required)	3	☐CHM2046/2096 ☐BSC2010 ☐PHY3101 ☐AST3018/3019	F S Su	Check catalog for Pre-requisites
<b>Semester 3 (16cr)</b>					
	MAC 2313 *(Tracking course "C" required)	4	Analytical Geometry & Calculus 3 (GE - M)	F S Su	MAC2312
	PHY 2049 *(Tracking course "C" required)	3	Physics with Calculus 2 (GE - P)	F S Su	MAC2312 & PHY2048
	PHY 2049L/2054L	1	Physics Lab 2 (GE - P)	F S Su	
	COP 2271 (Lab is optional)	2	Computer Programming for Engineers Matlab (no exceptions)	F S Su	MAC2312
	EAS 2011	3	Introduction to Aerospace Engineering	F S	PHY2048 & MAC2311
	EGM 2511 #(MAE core - "C" required)	3	Engineering Mechanics - Statics	F S Su	PHY2048
<b>Semester 4 (17cr)</b>					
	MAP 2302 *(Tracking course "C" required)	3	Elementary Differential Equations	F S Su	MAC2312
	EMA 3010	3	Materials	F S Su	CHM2045
	EML 2322L	2	Design and Manufacturing Laboratory	F S Su	EML2023 & ENC3246 & ASE/ME majors only
	EGM 3344 #(MAE core - "C" required)	3	Intro to Numerical Methods of Eng. Analysis	F S	MAC2313 & COP2271-Matlab
	EGM 3520 #(MAE core - "C" required)	3	Mechanics of Materials	F S Su	EGM2511 & MAC2313
	EML 3100 #(MAE core - "C" required)	3	Thermodynamics	F S Su	CHM2045 & MAC2313 & PHY2048
<b>Semester 5 (18cr)</b>					
	EAS 4101	3	Aerodynamics	F S	COP2271-Matlab & (EAS2011 or EGN3353C) & EML3100 & MAC2313 & MAP2302
	EEL 3003	3	Elements of Electrical Engineering (can sub-EEL 3111C)	F S Su	MAC2313 & PHY2049
	EGM 3401 #(MAE core - "C" required)	3	Engineering Mechanics - Dynamics	F S	EGM2511 & MAC2313
	EML 3301C	3	Mechanics of Materials Laboratory - [WR-6000]	F S Su	EGM3344 & EGM3520 & ENC3246
	MAP 4305 or 5304	3	Diff Equations for Engineers and Physical Scientists	F S Su	MAP2302 & MAS3111 or MAS4105 or EGM3344-(C or better required)
	GE - SS	3	Social & Behavioral Sciences	F S Su	
<b>Semester 6 (15cr)</b>					
	GE - H or GE - SS	3	Humanities or Social & Behavioral Sciences	F S Su	
	EAS 4132/EML5714	3	Compressible Flow	F S	EAS4101 or EGN3353C
	EAS 4510	3	Astrodynamics	S	EGM3401 & (EGM4313 or MAP4305 or MAP5304)
	EAS 4810C	3	Aerospace Sciences Lab & Design	F S	(EAS4101 or EGN3353C) & EML3100 & EML3301C
	EML 4312	3	Control of Mechanical Eng. Systems	F S	EGM3401 & EGM3344 & MAP2302
<b>Semester 7 (15cr)</b>					
	GE - H	3	Humanities	F S Su	
	EAS 4200C	3	Aerospace Structures	F	EGM3520
	EAS 4400	3	Stability and Control of Aircraft	F S	EAS4101 & EML4312
	ASE Elective (Pick 2)	6	☐EAS4240 ☐EAS4412 ☐EML4140 ☐EML4220 ☐EML4507 or any graduate level course taught by the MAE department		Check catalog for Pre-requisites
<b>Semester 8 (15cr)</b>					
	GE - SS	3	Social & Behavioral Sciences	F S Su	
	EAS 4300	3	Aerospace Propulsion	S	EAS4101
	EAS 4700 or EAS 4710	3	①Aerospace Design 1 / ②Aerospace Design 2	F / S	①EAS4510 & EML4312 / ②EAS4101 & EAS4400
	Tech Elective _____	3	See back page for some approved courses (others will require a petition)		Check Catalog for Pre-requisites
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**Total Hours 128**

Revised 9/12/2018

