Department of Mechanical and Aerospace Engineering Suggested Program of Study Aerospace Engineering: 2021 - 2022

FIRST YEAR

Fall (12 credit hours, 15 contact hours)	2(2.0)	Spring (15 credit hours, 19 contact hours)	2(2.0)	Summer (10 credit hours, 11 contact hours)	4(4.0)	
	3(3,0)	ENC 1102 English Composition II – GEP 2 SPC 1608 Oral Communications – GEP 3	3(3,0) 3(3,0)	*MAC 2313 Calc. III w/ Analytic Geometry (PR: "C" (2.0) or better in MAC 2312)	4(4,0)	
*MAC 2311C Calc. I w/ Analytic Geometry – GEP 7 (PR: "C" (2.0) or better in MAC 1114C, MAC 1140C)	4(3,2)	*EGN 1007C Engr Concepts & Methods	1(1,2)	*EGN 3310 Engr Analysis Statics	3(3,0)	
Pick One - *CHS 1440 Principals of Chemistry or	4(3,1)	*PHY 2048C (or PHY 2048 & PHY 2048L) General Physics Using Calc I – GEP 11	4(3,3)	(PR: "C" (2.0) or better in MAC 2311C, PHY 2048C (or Ph. & PHY 2048L), CR: MAC 2312)		
•	1(1,2)	(PR: "C" (2.0) or better in MAC 2311C) *MAC 2312 Calculus II w/ Analytic Geometry	4(4,0)	*COP 3223C Intro to Programming with C (PR: "C" (2.0) or better in COP 2500C or Appropriate score	3(3,1) ore on	
		(PR: "C" (2.0) or better in MAC 2311C)		the UCF CS Placement Exam)		
SECOND YEAR						
Fall (13 credit hours, 15 contact hours) *EGN 3321 Engineering Analysis - Dynamics (PR: "C" (2.0) or better in MAC 2313, EGN 3310)	3(3,0)	Spring (12 credit hours, 12 contact hours) *EGN 3373 Principles of Electrical Engr (PR: PHY 2049C (or PHY 2049 & PHY 2049L); CR: MAP 2302)	3(3,0)	Summer (9 credit hours, 9 contact hours) *STA 3032 Prob. & Statistics for Engineers GEP 8 (PR: "C" (2.0) or better in MAC 2312)	3(3,0)	
*MAP 2302 Differential Equations (PR: "C" (2.0) or better in MAC 2313)	3(3,0)	*EGN 3343 Thermodynamics (PR: "C" (2.0) or better in MAC 2313, EGN 3310)	3(3,0)	Cultural Foundation – GEP 5 Social Foundation – GEP 9	3(3,0) 3(3,0)	
*PHY 2049C (or PHY 2049 & PHY 2049L)	4(3,3)		3(3,0)	Social Foundation GEF /	3(3,0)	
General Physics Using Calc II (PR: "C" (2.0) or better in PHY 2048C (or PHY 2048 & PHY 20 MAC 2312)	48L),	(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, PHY 2048C (or PHY 2048 & PHY 2048L), EGN 3310)				
	3(3,0)		3(3,0)			
THIRD YEAR						
Fall (15 credit hours, 18 contact hours)		Spring (15 credit hours, 16 contact hours)				
EAS 3933 Career/Academic Advising I (PR: "C" (2.0) or better in MAP 2302)	0(0,0)	*EAS 3101 Fundamentals of Aerodynamics (PR: "C" (2.0) or better in EML 3701) Spring Only	3(3,0)			
*EML 3034C Modeling Methods in MAE	3(3,1)	*EAS 4505: Orbital Mechanics	3(3,0)			
(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, MAP . 2048C (or PHY 2048 & PHY 2048L), COP 3223C; CR: EGN 3321, EA		(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, PHY 2048C (or PHY 2048 & PHY 2048L), EGN 3321) Spring 0				
*EML 3701 Fluid Mechanics	3(3,0)	*EML 4225 Introduction to Vibrations & Controls	3(3,0)			
PHY 2048C (or PHY 2048 & PHY 2048L), EGN 3321, EGN 334.	3)	(PR: "C" (2.0) or better in EGN 3321, EGM 3601, EML 3034C, EGN 3373)				
*EAS 3800C Aerospace Engr Measurements (PR: "C" (2.0) or better in EGN 3343)	3(2,3)	*EAS 3810C Design of Aerospace Experiments (PR: "C" (2.0) or better in EAS 3800C, EML 3701)	3(1,3)			
*EAS 4200 Analysis & Design of Aerospace Structures (PR: "C" (2.0) or better in EGM 3601) Fall Only	3(3,0)	Social Foundation – GEP 10	3(3,0)			
Life Sciences Foundation –GEP 12	3(3,0)					
FOURTH YEAR						
Fall (15 credit hours, 18 contact hours)						
EAS 4931 Career/Academic Advising II (PR: EAS 3933, Department Consent)	0(0,0)	Spring (12 credit hours, 16 contact hours) *EAS 4300 Aerothermodynamics of Propulsion Syst. (PR: "C" (2.0) or better in EAS 4134) Spring Only	3(3,0)			
*EAS 4700C Aerospace Design I (PR: "C" (2.0) or better in EGN 3373, EAS 3800C, EML 3701, E EML 4225 and Department Consent; CR: EAS 4931)	3(2,4) EAS 3101,	*EAS 4710C Aerospace Design II (PR: EAS 4931 and "C" (2.0) or better in EAS 4700C)	3(2,4)			
*EAS 4105 Flight Mechanics (EAS 3101, CR: EML 4225) Fall Only	3(3,0)	*Approved Technical Elective *Approved Technical Elective	3(3,0) 3(3,0)			
	3(3,0)		-(-,~/			
*Approved Technical Elective	3(3,0)					
Cultural Or Historical Foundation – GEP 6	3(3,0)					

IMPORTANT NOTICES:

Must complete PHY 2048C or PHY 2048 and PHY 2048L (lecture and lab components) with a "C" (2.0) or better. Must complete PHY 2049C or PHY 2049 and PHY 2049L (lecture and lab components) with a "C" (2.0) or better.

Courses should be taken in the noted term or in a previous term, if your schedule permits, and as long as all prerequisites for that course have been met. Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor. There may be alternative options.

If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum, it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

^{*}Grade of "C" (2.0) or better is required in these courses.