

Department of Mechanical and Aerospace Engineering

Suggested Program of Study Aerospace Engineering: 2019 - 2020

FIRST YEAR

Fall (12 credit hours, 14 contact hours)	Spring (15 credit hours, 19 contact hours)	Summer (10 credit hours, 11 contact hours)
ENC 1101 English Composition I – GEP 1 3(3,0)	ENC 1102 English Composition II – GEP 2 3(3,0)	*MAC 2313 Calc. III w/ Analytic Geometry 4(4,0)
*EGS 1006C Intro to the Engr Prof 1(1,2)	SPC 1608 Oral Communications – GEP 3 3(3,0)	<i>(PR: "C" (2.0) or better in MAC 2312)</i>
*MAC 2311C Calc. I w/ Analytic Geometry – GEP 7 4(4,0)	*EGN 1007C Engr Concepts & Methods 1(1,2)	*EGN 3310 Engr Analysis Statics 3(3,0)
<i>(PR: "C" (2.0) or better in MAC 1114C, MAC 1140C)</i>	*MAC 2312 Calculus II w/ Analytic Geometry 4(4,0)	<i>(PR: "C" (2.0) or better in MAC 2311C, PHY 2048C, CR: MAC 2312)</i>
Pick One - *CHS 1440 Principals of Chemistry or 4(3,1)	<i>(PR: "C" (2.0) or better in MAC 2311C)</i>	*COP 3223C Intro to Programming with C 3(3,1)
*CHM 2045C Chemistry Fundamentals I – GEP 11	*PHY 2048C General Physics Using Calc I – GEP 11 4(3,3)	
	<i>(PR: "C" (2.0) or better in MAC 2311C)</i>	

SECOND YEAR

Fall (13 credit hours, 15 contact hours)	Spring (12 credit hours, 12 contact hours)	Summer (9 credit hours, 9 contact hours)
*EGN 3321 Engineering Analysis - Dynamics 3(3,0)	*EGN 3373 Principles of Electrical Engr 3(3,0)	*STA 3032 Prob. & Statistics for Engineers GEP 8 3(3,0)
<i>(PR: "C" (2.0) or better in MAC 2313, EGN 3310)</i>	<i>(PR: PHY 2049C; CR: MAP 2302)</i>	<i>(PR: "C" (2.0) or better in MAC 2312)</i>
*MAP 2302 Differential Equations 3(3,0)	*EGN 3343 Thermodynamics 3(3,0)	Cultural Foundation – GEP 5 3(3,0)
<i>(PR: "C" (2.0) or better in MAC 2313)</i>	<i>(PR: "C" (2.0) or better in MAC 2313, EGN 3310)</i>	Social Foundation – GEP 9 3(3,0)
*PHY 2049C General Physics Using Calculus II 4(3,3)	*EGM 3601 Solid Mechanics 3(3,0)	
<i>(PR: "C" (2.0) or better in MAC 2312, PHY 2048C)</i>	<i>(PR: "C" (2.0) or better in MAC 2313, PHY 2048C, EGN 3310)</i>	
*EMA 3706 Struct & Prop of Aerospace Matls. 3(3,0)	Historical Foundation – GEP 4 3(3,0)	
<i>(PR: "C" (2.0) or better in CHS 1440 or CHM 2045C, MAC 2312)</i>		

THIRD YEAR

Fall (15 credit hours, 18 contact hours)	Spring (15 credit hours, 16 contact hours)	
EAS 3933 Career/Academic Advising I 0(0,0)	*EML 4142 Heat Transfer 3(3,0)	
<i>(PR: "C" (2.0) or better in MAP 2302)</i>	<i>(PR: "C" (2.0) or better in EML 3701, EML 3034C)</i>	
*EML 3034C Modeling Methods in MAE 3(3,1)	*EML 4225 Introduction to Vibrations & Controls 3(3,0)	
<i>(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, MAP 2302, PHY 2048C, COP 3223C; CR: EGN 3321 and EAS 3933)</i>	<i>(PR: "C" (2.0) or better in EGN 3321, EGM 3601, EML 3034C, EGN 3373)</i>	
*EML 3701 Fluid Mechanics 3(3,0)	*EAS 3810C Design of Aerospace Experiments 3(1,3)	
<i>(PR: "C" (2.0) or better in MAC 2311C, MAC 2312, MAC 2313, MAP 2302, PHY 2048C, EGN 3321 and EGN 3343)</i>	<i>(PR: "C" (2.0) or better in EAS 3800C, EML 3701)</i>	
*EAS 3800C Aerospace Engr Measurements 3(2,3)	*EAS 3101 Fundamentals of Aerodynamics 3(3,0)	
<i>(PR: "C" (2.0) or better in EGN 3343)</i>	<i>(PR: "C" (2.0) or better in EML 3701) Spring Only</i>	
*EAS 4200 Analysis & Design of Aerospace Structures 3(3,0)	Social Foundation – GEP 10 3(3,0)	
<i>(PR: "C" (2.0) or better in EGM 3601) Fall Only</i>		
Life Sciences Foundation –GEP 12 3(3,0)		

FOURTH YEAR

Fall (15 credit hours, 18 contact hours)	Spring (12 credit hours, 16 contact hours)	
EAS 4931 Career/Academic Advising II 0(0,0)	*EAS 4300 Aerothermodynamics of Propulsion Syst. 3(3,0)	
<i>(PR: EAS 3933, Department Consent)</i>	<i>(PR: "C" (2.0) or better in EAS 4134 or EML 4703) Spring Only</i>	
*EAS 4700C Aerospace Design I 3(2,4)	*EAS 4710C Aerospace Design II 3(2,4)	
<i>(PR: "C" (2.0) or better in EGN 3373, EAS 3800C, EML 3701, EML 4142, EML 4225 and Department Consent; CR: EAS 4931)</i>	<i>(PR: EAS 4931 and "C" (2.0) or better in EAS 4700C)</i>	
*EAS 4105 Flight Mechanics 3(3,0)	*Approved Technical Elective 3(3,0)	
<i>(EAS 3101, CR: EML 4225) Fall Only</i>	*Approved Technical Elective 3(3,0)	
*EAS 4134 High-Speed Aerodynamics 3(3,0)		
<i>(PR: "C" (2.0) or better in EAS 3101) Fall Only</i>		
*Approved Technical Elective 3(3,0)		
Cultural Or Historical Foundation – GEP 6 3(3,0)		

IMPORTANT NOTICES:

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

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.