Department of Mechanical and Aerospace Engineering  
Suggested Program of Study  
Aerospace Engineering 2016 - 2017

**FIRST YEAR**

**Fall (12 credit hours, 14 contact hours)**
- EGS 1008C Intro to the Engr Prof 1(1,2)
- ENC 1101 English Composition I - A1 3(3,0)
- *CHS 1440 Principles of Chemistry 4(3,1)
- *MAC 2311C Calculus I w/ Analytic Geometry - C1 4(4,0)
  
  *(PR: "C" (2.0) or better in MAC 1140C, MAC 1140C)*

**Spring (15 credit hours, 19 contact hours)**
- EGN 1007C Engr Concepts & Methods 1(1,2)
- ENC 1102 English Composition II - A2 3(3,0)
- SPC 1608 Oral Communications - A3 3(3,0)
- *MAC 2312 Calculus II w/ Analytic Geometry 4(4,0)
  
  *(PR: "C" (2.0) or better in MAC 2311C)*
- *PHY 2048C General Physics I using Calculus - E1 4(3,3)
  
  *(PR: "C" (2.0) or better in MAC 2311C)*

**Summer (10 credit hours, 10 contact hours)**
- *MAC 2313 Calculus III w/ Analytic Geometry 4(4,0)
  
  *(PR: "C" (2.0) or better in MAC 2312)*
- EMA 3706 Structure & Properties of Aerospace Materials 3(3,0)
- Historical & Cultural Foundation - B1 3(3,0)

**SECOND YEAR**

**Fall (13 credit hours, 15 contact hours)**
- STA 3032 Probability & Statistics for Engineers - C2 3(3,0)
  
  *(PR: "C" (2.0) or better in MAC 2312)*
- *MAP 2302 Differential Equations 3(3,0)
  
  *(PR: "C" (2.0) or better in MAC 2313)*
- PHYS 3208C General Physics II using Calculus 4(3,3)
  
  *(PR: "C" (2.0) or better in MAC 2312, PHY 2048C)*
- *EGN 3310 Engineering Analysis - Statics 3(3,0)
  
  *(PR: "C" (2.0) or better in MAC 2311C, PHY 2048C, CR: MAC 2312)*

**Spring (12 credit hours, 12 contact hours)**
- EGM 3601 Solid Mechanics 3(3,0)
  
  *(PR: "C" (2.0) or better in EGN 3310, CR: MAP 2302)*
- *EGN 3373 Principles of Electrical Engr 3(3,0)
  
  *(PR: PHY 2048C, CR: MAP 2302)*

**Summer (9 credit hours, 9 contact hours)**
- Social Foundations - D1 3(3,0)
- Historical & Cultural Foundation - B2 3(3,0)
- Historical & Cultural Foundation - B3 3(3,0)

**THIRD YEAR**

**Fall (15 credit hours, 18 contact hours)**
- EML 3034C Modeling Methods in MAE 3(3,1)
  
  *(PR: "C" (2.0) or better in MAP 2302, CR: EGN 3321, EAS 3933)*
- EAS 3933 Career/Academic Advising I 0(0,0)
  
  *(PR: "C" (2.0) or better in MAP 2302)*
- EML 3701 Fluid Mechanics 3(3,0)
  
  *(PR: "C" (2.0) or better in MAP 2302, EGN 3321, EGN 3343)*
- EAS 3808C AE Engr Measurements 3(2,3)
  
  *(PR: EGN 3343, CR: EGM 3601)*
- EAS 4200 Analysis & Design of Aerospace Structures 3(3,0)
  
  *(PR: EGM 3601)*  
  
  **Fall Only**
- Science Foundations - E2 3(3,0)

**Spring (15 credit hours, 16 contact hours)**
- EAS 3101 Fundamentals of Aerodynamics 3(3,0)
  
  *(PR: EML 3701)*  
  
  **Spring Only**
- EAS 3810C Design of Aerospace Experiments 3(1,3)
  
  *(PR: EAS 3800C, EML 3701)*
- EML 4142 Heat Transfer 3(3,0)
  
  *(PR: EML 3701, EML 3034C)*
- EML 4225 Introduction to Vibrations & Controls 3(3,0)
  
  *(PR: EGN 3321, EGN 3361, EML 3034C, EGN 3373)*
- Social Foundations - D2 3(3,0)

**SUMMER**

**Summer (9 credit hours, 9 contact hours)**
- Social Foundations - D3 3(3,0)
- Historical & Cultural Foundation - B4 3(3,0)

**FOURTH YEAR**

**Fall (15 credit hours, 19 contact hours)**
- EAS 4700C Aerospace Design I 3(1,6)
  
  *(PR: EAS 3800C, EGN 3373, EML 3701, EML 4142, EML 4225)*
- EAS 4931 Career/Academic Advising II 0(0,0)
  
  *(PR: EAS 3933, Department Consent)*
- EAS 4105 Flight Mechanics 3(3,0)
  
  *(PR: EAS 3101, CR: EGM 3601)*  
  
  **Fall Only**
- EAS 4134 High-Speed Aerodynamics 3(3,0)
  
  *(PR: EAS 3101)*  
  
  **Fall Only**
- Approved Technical Elective 3(3,0)
- Approved Technical Elective 3(3,0)

**Spring (12 credit hours, 16 contact hours)**
- EAS 4300 Aerothermodynamics of Propulsion Systems 3(3,0)
  
  *(PR: EAS 4134)*  
  
  **Spring Only**
- EAS 4710C Aerospace Design II 3(1,6)
  
  *(PR: EAS 4700C, EAS 4931)*
- Approved Technical Elective 3(3,0)
- Approved Technical Elective 3(3,0)

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**IMPORTANT NOTICES:**

* A Grade of "C" (2.0) or better is required in these courses - CHS 1440, PHY 2048C, MAC 2311C, MAC 2312, MAC 2313, MAP 2302, EGN 3310, EGN 3321, and EGN 3343

Courses should be taken in the term noted, please meet with your Academic Advisor if you have any questions regarding your schedule. Do not withdraw from any course before discussing this action with your advisor, as there may be alternate actions, which could benefit you.

If you are not ready to begin the Calculus sequence upon entry to the Aerospace 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.

Please note, the College of Engineering and Computer Science has implemented a "Lack of Progress" Policy

Students may not accumulate seven (7) or more unsuccessful attempts (i.e. grades below "C" (2.0) or withdrawals) over all courses taken at UCF or more than two (2) unsuccessful attempts of the same course taken at UCF or they will be placed on Lack of Progress Probation for as long as the student is enrolled in a CECS or COP major. If a student on Lack of Progress Probation has a tenth unsuccessful attempt over all courses taken at UCF or has a third unsuccessful attempt of the same course taken at UCF, the student will be excluded from all CECS or COP majors.

Revised: 3/11/2016