AEROSPACE ENGINEERING
CATALOG YEAR 2005-2006
SUGGESTED PROGRAM OF STUDY (128 SEMESTER HOURS REQUIRED)

FIRST YEAR

Fall (14 credit hours, 18 contact hours)
- EGN 1006 Intro to the Engineering Profession 1(1,2)
- EGN 1111C Engineering Computer Graphics 2(1,3)
- ENC 1101 English Composition I 3(3,0)
- CHS 1440 Chemistry for Engineers or CHM 2045 w/lab 4(3,1)
- MAC 2311 Calc. I 4(4,0)

Spring (15 credit hours, 19 contact hours)
- EGN 1007 Engineering Concepts/Methods 1(1,2)
- ENC 1102 English Composition II 3(3,0)
- MAC 2312 Calc. II 4(4,0)
- PHY 2048 Physics for Engineers I w/lab 4(3,3)
- SPC 1016 Oral Comm. For Engrs. (pref.) or SPC 1600 Oral Comm. 3(3,0)

Summer (10 credit hours, 10 contact hours)
- MAC 2313 Calc. III 4(4,0)
- EMA 3706 Structure and Property of Aerospace Materials (PR: CHS 1440 & MAC 2312) 3(3,0)
- Social Foundations 3(3,0)

SECOND YEAR

Fall (14 credit hours, 18 contact hours)
- Cultural & History Foundations 3(3,0)
- MAP 2302 Differential Equations 3(3,0)
- PHY 2049 Physics for Engineers II w/lab 3(3,0)
- EGN 3310 Engineering Analysis Statics (PR PHY 2048, CR: MAC 2312) 4(3,3)
- SPC 1016 Oral Comm. For Engrs. (pref.) or SPC 1600 Oral Comm. 3(3,0)

Spring (12 credit hours, 12 contact hours)
- EGN 3321 Engineering Analysis Dynamics (PR: EGN 3310, CR: MAC 2313) 3(3,0)
- EGN 3343 Thermodynamics (PR: MAP 2302, CR: EGN 3321) 3(3,0)
- EGM 3601- Solid Mechanics (PR: EGN 3310; CR: MAP 2302) 3(3,0)
- EGN 3373 Principles of Electrical Engineering (PR: PHY 2049; CR: MAP 2302) 3(3,0)

Summer (9 credit hours, 9 contact hours)
- ECO 2013 or ECO 2023 Economics I or II 3(3,0)
- Cultural & History Foundations 3(3,0)
- STA 3032 Probability & Statistics 3(3,0)

THIRD YEAR

Fall (15 credit hours, 19 contact hours)
- EML 3034 Modeling Methods in MMAE (PR: MAP 2302, High Level Programming Language CR: EGN 3321) 3(3,0)
- EML 3701 Fluids Mechanics I (PR: MAP 2302, EGN 3343) 3(3,0)
- EAS 3800C Aerospace Engineering Measurements (PR: EGM 3601, CR: EGN 3343) 3(2,3)
- EAS 4200 Flight Structures (PR: EGM 3601, CR: EML 3034) 3(3,0)
- EML 4535C CAD/CAM (PR: EGN 3343, EGM 3601, EML 3034, CR: EAS 4200 or EML 3500) 3(2,3)

Spring (14 credit hours, 17 contact hours)
- EAS 3101 Fundamentals of Aerodynamics (PR: EML 3701) 3(3,0)
- EAS 3810C Design of Aerospace Experiments (PR: ESG 3800C, EML 3701) 2(1,3)
- EAS 4210 Space Structural Dynamics (PR: EGN 3321, EGM 3601) 3(3,0)
- EAS 4505 Orbital Mechanics Of (PR: EGN 3321, MAP 2302) 3(3,0)
- EAS 3530 Space System Concepts (PR: EAS 3010, PHY 2049 and MAP 2302) Science Foundation 3(3,0)

FOURTH YEAR

Fall (12 credit hours, 18 contact hours)
- EML 4312C Feedback Control (PR: EGN 3321, MAP 2302, EGN 3373, EAS 4210) 3(2,3)
- EAS 4105 Flight Mechanics (PR: EAS 3101, CR: EML 312C) 3(3,0)
- EAS 4134 High Speed Aerodynamics (PR: EAS 3101) 3(3,0)
- EAS 4700C Aerospace Design I or EGN 4412 Interdisciplinary Design I (PR: EAS 3101, EAS 3800C, EAS 4200) 3(1,6)

Spring (12 credit hours, 16 contact hours)
- EAS 4300 Propulsion Systems (PR: EAS 4134) 3(3,0)
- EAS 4710C Aerospace Design II or EGN 4413 Interdisciplinary Design II (PR: EAS 4700C) Approved Technical Elective 3(3,0)
- Cultural & History Foundations 3(3,0)

IMPORTANT NOTICE:

Bolded course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.

Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to insure that you take courses in a proper sequence regarding prerequisites.

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 actions, which will 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.