

**College of Basic and Applied Sciences
Upper Division Form 2007-2009 Catalog**

Student name _____ Student # _____
 Major AEROSPACE Minor Mathematics
 Concentration Technology E-mail _____

Instructions: For students graduating in Fall 2007 or later. *One (1) copy signed by major and minor advisors should be filed in the Records Office three semesters before anticipated graduation. An Intent to Graduate form should also be filed in the Records Office at the time of Upper Division Form submission.*

| General Education | Course | Semester | Grade | Notes | Credit Hours |
|---|------------------|----------|-------|-------|--------------|
| COMMUNICATION (9 hours) | COMM 2200 | | | | 3 |
| | ENGL 1010 | | | | 3 |
| | ENGL 1020 | | | | 3 |
| HISTORY (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030 | | | | | 3 |
| | | | | | 3 |
| HUMANITIES AND/OR FINE ARTS (9 hours) Choose one: ENGL 2020, 2030 or HUM 2610. Choose 2 with different rubrics: ANTH 2210, ART 1030, ART 1910, ART 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030 | | | | | 3 |
| | | | | | 3 |
| | | | | | 3 |
| MATHEMATICS (4 hours) *(Also counts as part of the Math Minor) | MATH 1910* | | | | 3 of 4 |
| NATURAL SCIENCES (8 hours) | CHEM 1010 / 1011 | | | | 4 |
| | PHYS 2110 / 2111 | | | | 4 |
| SOCIAL/BEHAVIORAL SCIENCES (6 hours) Choose two (different rubrics): AAS 2100, ANTH 2010, ECON 2410, GEOG 2000, HLTH 1530 / 1531, JOUR/EMC/RIM 1020, PS 1010, PS 2010, PSY 1410, SOC 1010, SOC 2010, WMST 2100 | | | | | 3 |
| | | | | | 3 |
| Hours Required | | | | | 41 |

| Major Courses (2.0 GPA required) | Course | Semester | Grade | Notes | Credit Hours |
|----------------------------------|-----------|----------|-------|-------|--------------|
| Introduction to Aerospace | AERO 1010 | | | | 3 |
| Theory of Flight | AERO 1020 | | | | 3 |
| Aerospace Materials | AERO 3020 | | | | 3 |
| Propulsions Fundamentals | AERO 3030 | | | | 3 |
| Flight Safety | AERO 3170 | | | | 3 |
| Fundamentals of Aerodynamics | AERO 3440 | | | | 3 |
| Aerospace Seminar | AERO 4040 | | | | 3 |
| Problems in Aerospace | AERO 4071 | | | | 1 |
| Airport Planning and Design | AERO 4170 | | | | 3 |
| Aerospace Vehicle Systems | AERO 4310 | | | | 3 |
| Aircraft Performance | AERO 4440 | | | | 3 |
| Hours Required | | | | | 31 |

| Supporting and Elective Courses | | | | |
|--|------------------|-------|-------|--------------|
| Course | Semester | Grade | Notes | Credit Hours |
| Engineering Fundamentals | ET 1840 | | | 3 |
| Engineering Thermodynamics and Heat Transfer | ET 3810 | | | 3 |
| Statics | ET 3830 | | | 3 |
| Dynamics | ET 3840 | | | 3 |
| Strength of Materials | ET 3860 | | | 3 |
| Vibration | ET 4830 | | | 3 |
| Fluid Power | ET 4850 | | | 3 |
| Calculus-Based Physics II and University Physics Laboratory II | PHYS 2120 / 2121 | | | 4 |
| Computer Science I | CSCI 1170 | | | 4 |
| Computer Science II | CSCI 2170 | | | 4 |
| Hours Required | | | | 33 |

| Mathematics Minor – All courses must be completed with a ‘C’ or better. | | | | | |
|---|---------------|----------|-------|----------------------------------|--------------|
| Minor Courses (2.0 GPA required) | Course | Semester | Grade | Notes | Credit Hours |
| Calculus I* | MATH 1910* | | | (*3 credits counted in Gen. Ed.) | 1 (4) |
| Calculus II | MATH 1920 | | | | 4 |
| Linear Algebra | MATH 2010 | | | | 3 |
| Calculus III | MATH 3110 | | | | 4 |
| Differential Equations I | MATH 3120 | | | | 3 |
| Hours Required | | | | 15* | (18) |
| Signed: | | | | | |
| | Minor Advisor | | | Date | |

| Second Minor (Optional) | | | | | |
|----------------------------------|---------------|----------|-------|-------|--------------|
| Minor Courses (2.0 GPA required) | Course | Semester | Grade | Notes | Credit Hours |
| | | | | | |
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| Hours Required | | | | | |
| Signed: | | | | | |
| | Minor Advisor | | | Date | |

1. Degrees require a minimum of 120 semester hours with a 2.0 GPA, a minimum of 42 upper-division hours (30 at MTSU) with a 2.0 GPA, and a minimum of 60 senior college hours.
2. Remedial/developmental courses do not count toward the 120-hour requirement or cumulative degree GPA.
3. Courses used to fulfill high school deficiencies can only be counted as general elective credit

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|----------------|---------------|------|
| Signed: | | |
| | Major Advisor | Date |