

# Aviation Technology, B.S., Aerospace Ops Concen.—Space Commercialization Emphasis

303-556-2983 Seventh Street 102

Catalog 12-13

This sheet applies to the 2012-2013 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	34
Major courses	68
Minor courses	18 min.

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

**Total to graduate (min. 40 upper division hours) 120 min**

## **\*TO BE COMPLETED WITHIN FIRST 30-COLLEGE LEVEL CREDIT HOURS**

### Written Communication

- \_\_\_ ENG 1010 (3hrs) Freshman Comp: the Essay\*  
**OR** \_\_\_ ENG 1008/1009 (6 hrs.) Freshman Comp: The Essay Part I & II\*  
\_\_\_ ENG 1020 (3hrs) Freshman Comp: Anal., Rsrch & Docum. (must be completed within 45-credit hours)

### Quantitative Literacy\*

- \_\_\_ MTH 1110 (4 hrs) College Algebra  
or \_\_\_ MTH 1112 (4 hrs) College Algebra Through Modeling  
or \_\_\_ MTH 1310 (4 hrs) Finite Mathematics for the Mgmt and Social Sciences

### Oral Communication\*

- \_\_\_ SPE 1010 (3 hrs) Public Speaking

### Arts & Humanities

- \_\_\_ (3 hrs)  
\_\_\_ PHI 1030 (3 hrs) Introduction to Ethics

### Historical

- \_\_\_ (3 hrs)

### Social & Behavioral Science I

- \_\_\_ ECO 2010 (3 hrs) Principles of Macroeconomics

### Social & Behavioral Science II

- \_\_\_ ECO 2020 (3 hrs) Principles of Microeconomics

### Natural & Physical Sciences

- \_\_\_ PHY 1250 (6 hrs) Physics of Aviation

### Global Diversity

- \_\_\_ (3 hrs) may be satisfied within General Studies

### Multicultural Requirement

(may be satisfied within General Studies or minor)

MAJOR COURSES (grade of "C" or better required for all major upper-division classes). See faculty advisor

- \_\_\_ **AES 1100 (6 hrs) Aviation Fundamentals**  
\_\_\_ **AES 1400 (3 hrs) Aviation Weather**  
\_\_\_ **AES 1710 (3 hrs) Single Engine Flight Simulation I**  
\_\_\_ AES 2220 (3 hrs) Flight Dispatcher & Load Planning  
\_\_\_ AES 3000 (3 hrs) Aircraft Systems & Propulsion  
\_\_\_ AES 3850 (3 hrs) Human Factors & Physiology of Flight  
\_\_\_ AES 3880 (3 hrs) Aviation Security  
\_\_\_ AES 4370 (3 hrs) Advanced Navigation Systems  
\_\_\_ AES 4860 (3 hrs) Aviation Safety  
**or** \_\_\_ AES 4870 (3 hrs) Aviation Safety Program Management  
\_\_\_ AES 4910 (3 hrs) Aviation Management Problems & Job Targeting  
\_\_\_ COM 2610 (3 hrs) Introduction to Technical Writing  
**or** \_\_\_ MKT 2040 (3 hrs) Business Communications  
\_\_\_ AES 4930 (3 hrs) Professional Flight Standards Seminar  
**or** \_\_\_ AES 4950 (3 hrs) Aviation and Aerospace Science Mgt. Strategies  
**or** \_\_\_ COM 4790 (3 hrs) Senior Seminar in Tech. Communications (Senior Experience)

Space Commercialization Emphasis additional classes

- \_\_\_ AES 3600 (3 hrs) Space Flight Operations I  
\_\_\_ AES 4601 (3 hrs) Space Flight Operations II  
\_\_\_ AES 4602 (3 hrs) Aerospace Commercialized Operations  
\_\_\_ AES 4603 (3 hrs) Aero. Operations Systems Analysis & Design  
\_\_\_ AES 4607 (3 hrs) Orbital Mechanics & Aero. Systems Simulations

Plus a minimum of 17 semester hours of approved AES electives

The following courses may be substituted for approved AES electives:

- \_\_\_ MTH 1210 (4 hrs) Introduction to Statistics  
\_\_\_ MTH 1320 (3 hrs) Calculus for the Management & Social Sciences  
\_\_\_ MGT 3000 (3 hrs) Organizational Management  
\_\_\_ MGT 4530 (3 hrs) Organizational Behavior  
\_\_\_ PSY 1001-3 Introductory Psychology

**MINOR** required (minimum 18-credit hours): non-AES except for Airframe and Powerplant Mechanics minor, which is 31-credit hours)