

# Aviation & Aerospace Science, B.S., Professional Flight Officer Concentration

303-556-2983

Seventh Street 102

Catalog 15-16

College of Professional Studies

This sheet applies to the 2015-2016 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 min.
Major courses	68
Minor or unrestricted electives	18 min.
<b>Total to graduate (min. 40 hrs. upper division)</b>	<b>120</b>

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

## \*TO BE COMPLETED WITHIN FIRST 30-CREDIT HOURS AT MSU DENVER

### Written Communication

\_\_\_ ENG 1010 (3 hrs) Composing Arguments\*

**OR** ENG 1008/1009 (6 hrs) Intro to Composition I and II\*

\_\_\_ ENG 1020 (3 hrs) Freshman Comp: Anly, Rsrch, & Documt. (must be completed within 45-credit hours)

### Oral Communication\*

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

**OR** SPE 1710 (3 hrs) Interpersonal Communication

### 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

### Arts & Humanities

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

\_\_\_ (3 hrs)

### Historical

\_\_\_ (3 hrs)

### Natural & Physical Sciences

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

### Social & Behavioral Science I

\_\_\_ (3 hrs)

### Social & Behavioral Science II

\_\_\_ (3 hrs)

### Global Diversity

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

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

\_\_\_ **AES 1100 (6 hrs) Aviation Fundamentals**

\_\_\_ **AES 1400 (3 hrs) Aviation Weather**

\_\_\_ **AES 1710 (3 hrs) Instrument Flight Simulation I**

\_\_\_ AES 2120 (4 hrs) Instrument Fundamentals

\_\_\_ AES 2130 (3 hrs) Commercial Flight Operations

\_\_\_ AES 2710 (3 hrs) Instrument Flight Simulation II

\_\_\_ AES 3000 (3 hrs) Aircraft Systems and Propulsion

\_\_\_ AES 3530 (3 hrs) Aerodynamics

\_\_\_ AES 3550 (4 hrs) FAA Instructor Certification-Ground School

\_\_\_ AES 3650 (4 hrs) Advanced Flight Technologies

\_\_\_ AES 3710 (3 hrs) Multi-Engine Flight Simulation I

\_\_\_ AES 3850 (3 hrs) Human Factors and Physiology of Flight

\_\_\_ AES 3880 (3 hrs) Aviation Security

\_\_\_ AES 4040 (3 hrs) Aircraft Performance

\_\_\_ AES 4370 (3 hrs) Advanced Navigation Systems

\_\_\_ AES 4710 (4 hrs) Turboprop Flight Simulation\*

\_\_\_ AES 4860 (3 hrs) Aviation Safety

\_\_\_ AES 4910 (3 hrs) Aviation and Aerospace Strategic Planning (Sr. Exp.)

\_\_\_ AES 4930 (3 hrs) Professional Flight Standards Seminar (Sr. Exp.)

\_\_\_ AES 4935 (4 hrs) Advanced Commercial Aircraft Systems

\*Prerequisites for AES 4710 include a multiengine rating or successful completion of AES 3710.

Required Professional Pilot Documentation—see department.

\_\_\_ **Multicultural Requirement** may be satisfied within General Studies, minor, or electives

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

## ELECTIVES