

Aviation & Aerospace Science, B.S., Aerospace Operations 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 (includes 29 hrs. electives)	68
Minor or unrestricted electives	18 min.
Total to graduate (min. 40 upper division hours)	120

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

- ___ (3 hrs)
___ PHI 1030 (3 hrs) Introduction to Ethics

Historical

- ___ (3 hrs)

Natural & Physical Sciences

- ___ PHY 1250 (6 hrs) 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 required for all major upper-division classes)

- ___ AST 1040 (3 hrs) Introduction to Astronomy
___ AES 1050 (3 hrs) Introduction to Space
___ **AES 1100 (6 hrs) Aviation Fundamentals**
___ **AES 1400 (3 hrs) Aviation Weather**
___ **AES 1710 (3 hrs) Instrument Flight Simulation I**
___ AES 2220 (3 hrs) Flight Dispatcher and Load Planning
___ AES 3000 (3 hrs) Aircraft Systems and Propulsion
___ AES 3600 (3 hrs) Space Flight Operations I
___ AES 3850 (3 hrs) Human Factors and Physiology of Flight
___ AES 3880 (3 hrs) Aviation Security
___ AES 4200 (3 hrs) Airport Planning and Management I
___ AES 4370 (3 hrs) Advanced Navigation Systems
___ AES 4601 (3 hrs) Space Flight Operations II
___ AES 4602 (3 hrs) Aerospace Commercialized Operations
___ AES 4603 (3 hrs) Aerospace Operations Systems Analysis and Design
___ AES 4607 (3 hrs) Orbital Mechanics and Aerospace Systems Simulations
___ AES 4860 (3 hrs) Aviation Safety
OR AES 4870 (3 hrs) Aviation Safety Program Management
___ AES 4910 (3 hrs) Aviation and Aerospace Strategic Planning (Sr. Exp.)
___ COM 2610 (3 hrs) Introduction to Technical Writing
OR MKT 2040 (3 hrs) Business Communications
___ AES 4210 (3 hrs) Airport Planning and Management II
OR AES 4930 (3 hrs) Professional Flight Standards Seminar
OR COM 4790 (3 hrs) Senior Seminar in Tech. Communications (Sr. Exp.)

Plus a minimum of 5 semester hours of approved AES electives: see catalog

___ **Multicultural requirement** may be satisfied within General Studies or minor

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

ELECTIVES