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

**Catalog 14-15**

This sheet applies to the 2014-2015 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.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>34 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major courses</td>
<td>68</td>
</tr>
<tr>
<td>Minor or unrestricted electives</td>
<td>18 min.</td>
</tr>
<tr>
<td><strong>Total to graduate (min. 40 hrs. upper division)</strong></td>
<td><strong>120</strong></td>
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</tbody>
</table>

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

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

**Written Communication**

- **ENG 1010 (3hrs)** Composing Arguments *
  OR **ENG 1008/1009 (6 hrs.) Intro to Composition I & II**
  OR **ENG 1020 (3hrs)** 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**
  OR (3 hrs)

**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

**Electives**

### 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 & 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 & 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. Ex)**
- **AES 4930 (3 hrs) Professional Flight Standards Seminar (Sr. Exper.)**
- **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 & Powerplant Mechanics minor which is 31-credit hours.