### Aviation & Aerospace Science, B.S., Aerospace Operations Concentration

#### 303-556-2983 Seventh Street 102

**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.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>34 min</th>
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<tbody>
<tr>
<td>Major courses (includes 29 hrs. electives)</td>
<td>68</td>
</tr>
<tr>
<td>Minor or unrestricted electives</td>
<td>18 min.</td>
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<td><strong>Total to graduate (min. 40 upper division hours)</strong></td>
<td><strong>120</strong></td>
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### 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
- **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
- **MKT 2040 (3 hrs)** Business Communications
- **AES 4210 (3 hrs)** Airport Planning and Management II
- **AES 4930 (3 hrs)** Professional Flight Standards Seminar
- **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