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

**General Studies**

- **34 min**

**Major courses**

- **68**

**Minor courses**

- **18 min.**

**Total to graduate (min. 40 hrs. upper division)**

- **120**

*This sheet applies to the 2013-2014 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.*

**Written Communication**

- **ENG 1010 (3hrs)** Composing Arguments*
- **OR ENG 1008/1009 (6 hrs.)** Freshman Comp: The Essay Part I & II*
- **ENG 1020 (3hrs)** Freshman English: Rsrch, Anly, & Documt. (must be completed within 45-credit hours)

**Oral Communication**

- **SPE 1010 (3 hrs)** Public Speaking
- **OR SPE 1710 (3 hrs)** Interpersonal Communications

**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 (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
- **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 Management and Job Targeting
- **AES 4930 (3 hrs)** Professional Flight Standards Seminar (Sr. Exper.)
- **AES 4935 (6 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.**

**AES Approved Electives—3-4 hrs—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.