

Aviation Flight Technology

Program A4300
CIP 490102

Associate in Applied Science Degree

The Aviation Flight Technology program is accredited by the Aviation Accreditation Board International and provides flight instruction for the Private and Commercial certificates and Instrument rating.

In order to complete the program, every student must successfully pass the Federal Aviation Administration (FAA) Private, Commercial, and Instrument computer examinations and be certified as a commercial pilot with instrument rating. Ninety-seven percent of Mercer's students have passed the examinations on the first attempt. The college is an approved examining authority; FAA computer tests are conducted at the college.

Successful graduates of the program will:

- obtain the appropriate ground and flight certificates;
- fill related aviation positions requiring specific aviation knowledge with airport service operators located at numerous airports in the United States and possessions.

Most of the aviation courses are offered during the day, and certain ones may be available during the evening. Cooperative education opportunities are also available.

A career with the major airlines may require a four-year baccalaureate degree. There are direct transfer agreements with Embry-Riddle Aeronautical University, Florida Institute of Technology, Metropolitan State College, Thomas Edison State College, Southern Illinois University, Dowling College, and Central Missouri State University.

Students in the Aviation Flight Technology program receive classroom and laboratory instruction on the West Windsor Campus, while flight training takes place at the college's fixed base operation at Trenton-Mercer Airport. The college has its own fleet of seven aircraft and employs the flight instructors.

An active advisory commission consisting of experts from the government and civilian areas of aviation recommends changes necessary to maintain a quality program.

Admission to the program requires a high school diploma with one year of algebra. High school courses in trigonometry and physics are an advantage. Proof of citizenship or Transportation Security Administration approval is required for enrollment in the Flight program. Before flight training begins, an aviation medical will be required. Contact the Aviation program coordinator for details.

Graduates of the program often return to take a flight training course toward the certified flight instructor rating.

Curriculum

| Code | Course (lecture/lab hours) | Credits |
|---------|--|---------|
| AVI 101 | Aerospace Development (3/0) | 3 |
| AVI 113 | Flight I (1/3) ¹ | 2 |
| AVI 131 | Commercial Pilot I (3/0) | 3 |
| ENG 101 | English Composition I (3/0) | 3 |
| HPE 110 | Concepts of Health and Fitness (1/2)† | 2 |
| MAT 115 | Algebra and Trigonometry I (3/0) ² | 3 |
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| AVI 105 | Aviation Weather (3/0) | 3 |
| AVI 114 | Flight II (1/3) ¹ | 2 |
| AVI 132 | Commercial Pilot II (3/0) | 3 |
| CMN 112 | Public Speaking (3/0) | 3 |
| ENG 102 | English Composition II (3/0) | 3 |
| MAT 116 | Algebra and Trigonometry II (3/0) ² | 3 |
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| AVI 203 | Aircraft Components (3/0) | 3 |
| AVI 213 | Flight III (1/4) ¹ | 3 |
| AVI 231 | Commercial Pilot III (3/0) | 3 |
| PHY 101 | College Physics (3/3) | 4 |
| — — | General Education elective ³ | 3 |
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| AVI 102 | Aviation Transportation (3/0) | 3 |
| AVI 208 | Aviation Seminar | 1 |
| AVI 214 | Flight IV (1/4) ¹ | 3 |
| AVI 215 | Aerodynamics (2/2) | 3 |
| IST 101 | Computer Concepts with Applications (2/2) | 3 |
| — — | General Education elective ⁴ | 3 |
| | | 65 |

¹ Special fee required; hours to be arranged.

² Or higher-level mathematics course.

³ Select course from either Social Science or Humanities general education categories.

⁴ Select course from the following general education categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective (PSY 101 recommended).

†HPE 111 is an acceptable alternative.

NOTE: Students must earn a minimum grade of C in AVI 113, 114, 131, 132, 213, 214, 215, 231, and MAT 115 to graduate.

