



# Aviation Flight Technology

Program **AVI.FLT.AAS**  
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.

### PROGRAM OUTCOMES

- 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. Actual flight training takes place at a fixed base operation at Trenton-Mercer Airport, where the college has access to a fleet of aircraft and supervises 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
<b>FIRST SEMESTER</b>		
AVI 101	Aerospace Development (3/0)	3
AVI 113	Flight I (1/3) <sup>1</sup>	2
AVI 131	Commercial Pilot I (3/0)	3
CSW 100	College Success and Personal Wellness (2/0)†	2
ENG 101	English Composition I (3/0)	3
MAT 135	Intermediate Algebra with Applications (4/0) <sup>2</sup>	4
<b>SECOND SEMESTER</b>		
AVI 105	Aviation Weather (3/0)	3
AVI 114	Flight II (1/3) <sup>1</sup>	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 146	Pre-Calculus (4/0) <sup>2</sup>	4
<b>THIRD SEMESTER</b>		
AVI 203	Aircraft Components (3/0)	3
AVI 213	Flight III (1/4) <sup>1</sup>	3
AVI 231	Commercial Pilot III (3/0)	3
PHY 101	College Physics I (3/3)	4
—	General Education elective <sup>3</sup>	3
<b>FOURTH SEMESTER</b>		
AVI 102	Aviation Transportation (3/0)	3
AVI 208	Aviation Seminar	1
AVI 214	Flight IV (1/4) <sup>1</sup>	3
AVI 215	Aerodynamics (2/2)	3
IST 101	Computer Concepts with Applications (2/2)	3
—	General Education elective <sup>4</sup>	3
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<sup>1</sup> Special fee required; hours to be arranged.

<sup>2</sup> Or higher-level mathematics course.

<sup>3</sup> Select course from either Social Science or Humanities general education categories.

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

† Some exemptions apply. Consult academic advisor for details.

NOTE: Students must earn a minimum grade of C in AVI 113, 114, 131, 132, 213, 214, 215, 231, and MAT 135 to graduate.