



2019-2020 Academic Year

# Aviation Flight Technology

Associate in Applied Science Degree (A.A.S.)

**B-STEM Division**

Business, Science, Technology, Engineering and Math

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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.

**SEE ALSO:**

[Airline Transport Pilot \(ATP\) certificate program](#)

[Aviation Flight Technology: Airline Transport Pilot \(ATP\) degree program](#)

[Aviation Flight Technology: CFI certificate program](#)

## DEGREE CURRICULUM

2019-2020 Academic Year

AVI.FLT.AAS

CIP 490102

The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (Foundations courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
<b>FIRST SEMESTER</b>			
<a href="#">AVI 101</a>	Aerospace Development (3/0)	3	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how
<a href="#">AVI 113</a>	Flight I (1/3)	2	
	<ul style="list-style-type: none"> <li>• Special fee required; hours to be arranged.</li> </ul>		

<a href="#"><u>AVI 131</u></a>	Commercial Pilot I (3/0)	3	<p>long it will take to complete your degree.</p> <p>✓ Use your online tools: Check your <a href="#">MercerMail</a> daily, utilize features of Office 365, and get to know <a href="#">Student Planning</a>.</p> <p>✓ Take advantage of <a href="#">Learning Centers</a> or <a href="#">Online Tutoring</a> to support your studies and assignments.</p>
<a href="#"><u>CSW 100</u></a>	College Success and Personal Wellness (2/0)	2	
	<ul style="list-style-type: none"> <li>Some exemptions apply. Consult academic advisor for details.</li> </ul>		
<a href="#"><u>ENG 101</u></a>	English Composition I (3/0)	3	
<a href="#"><u>MAT 115</u></a>	Algebra and Trigonometry I (3/0)	3	

## SECOND SEMESTER

<a href="#"><u>AVI 105</u></a>	Aviation Weather (3/0)	3	<p>✓ Transitioning to college can be challenging. Meet with your <a href="#">Success Coach</a> for guidance and support.</p> <p>✓ Apply for <a href="#">financial aid</a> by May 1.</p> <p>✓ Contact professors with questions and use their office hours to develop a connection. Talk with them to get the inside scoop on how your profession works.</p> <p>✓ Be sure to visit the <a href="#">Career Services</a> office to explore jobs, internships, and career information and get help with your resume and other career tools.</p> <p>✓ Apply for Continuing Student scholarships at <a href="http://www.mccc.edu/m-scholarships">www.mccc.edu/m-scholarships</a>.</p>
<a href="#"><u>AVI 114</u></a>	Flight II (1/3)	2	
	<ul style="list-style-type: none"> <li>Special fee required; hours to be arranged.</li> </ul>		
<a href="#"><u>AVI 132</u></a>	Commercial Pilot II (3/0)	3	
<a href="#"><u>CMN 112</u></a>	Public Speaking (3/0)	3	
<a href="#"><u>MAT 116</u></a>	Algebra and Trigonometry II (3/0)	3	

## THIRD SEMESTER

<a href="#">AVI 203</a>	Aircraft Components (3/0)	3	<ul style="list-style-type: none"> <li>✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate on time.</li> <li>✓ Work with <a href="#">Career Services</a> to formulate plans for after you've earned this degree.</li> </ul>
<a href="#">AVI 213</a>	Flight III (1/4) <ul style="list-style-type: none"> <li>• Special fee required; hours to be arranged.</li> </ul>	3	
<a href="#">AVI 231</a>	Commercial Pilot III (3/0)	3	<ul style="list-style-type: none"> <li>✓ Develop team and leadership skills by getting involved in <a href="#">activities and clubs</a>.</li> <li>✓ Apply for Continuing Student scholarships at <a href="http://www.mccc.edu/m-scholarships">www.mccc.edu/m-scholarships</a>.</li> <li>✓ Manage your stress! Take advantage of the MCCC pool, <a href="#">Fitness Center</a>, free yoga and Zumba. Reach out for <a href="#">counseling</a> or other support if you need it. Your <a href="#">Success Coach</a> can connect you with resources.</li> </ul>
<a href="#">PHY 101</a>	College Physics I (3/3)	4	
<a href="#">SOC 101</a>	Introduction to Sociology (3/0) <ul style="list-style-type: none"> <li>• PSY 101 is an acceptable substitute.</li> </ul>	3	

## FOURTH SEMESTER

<a href="#">AVI 102</a>	Aviation Transportation (3/0)	3	<ul style="list-style-type: none"> <li>✓ Get ready to start your career! Begin the job application process.</li> </ul>
<a href="#">AVI 208</a>	Aviation Seminar	1	
<a href="#">AVI 214</a>	Flight IV (1/4) <ul style="list-style-type: none"> <li>• Special fee required; hours to be arranged.</li> </ul>	3	<ul style="list-style-type: none"> <li>✓ Discuss your career plans with your faculty advisor. S/he can help you transition successfully.</li> </ul>

<u>AVI 215</u>	Aerodynamics (2/2)	3
<u>AVI 217</u>	Flight VI (1/1)	1
	<ul style="list-style-type: none"> <li>• Completion of AVI 214 flight training required before starting AVI 217 training.</li> <li>• Special fee required; hours to be arranged.</li> </ul>	
— —	<u>General Education elective</u>	3
	<ul style="list-style-type: none"> <li>• Select course from the following <u>general education</u> categories: Social Science, Humanities, Historical Perspective, Diversity and Global Perspective.</li> </ul>	
		<b>60</b>

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