

FIXED WING, AVIATION TECHNOLOGY WITH PRIOR FAA PILOT LICENSE (AAS)

Overview

Degree: Associate of Applied Science

Major: Aviation Technology

Emphasis: Fixed Wing, with Prior FAA Pilot License

Program Code: 1403

Goals of the Aviation Technology program with a Fixed Wing emphasis are to prepare students for FAA Certification as a Commercial Pilot with an Instrument Rating and as a Certified Flight Instructor. In addition, the program offers opportunities to enhance knowledge and expertise in the field of aviation by improving technical skills. Successful completion of the Aviation Technology program will also help prepare AAS students for BS programs in Aviation Technology.

Additional requirements for admission to this program:

1. A secondary application must be submitted to the Aviation Technology Director prior to acceptance in the program.
2. Must hold at least one or any combination of the following: a current FAA private pilot license, a current FAA commercial pilot license, and/or a current FAA instrument pilot license. A copy of the current FAA license(s) must be housed in the Registrar's Office as part of the student's permanent record.
3. A student may earn only the Aviation Technology: Fixed Wing with Prior FAA Pilot License AAS or the Aviation Technology: Fixed Wing AAS.
4. Students who do not complete the Instrument Rating and Commercial Pilot Certificate at an FAA approved Part 141 school will not qualify for Restricted-ATP certification.
5. Must complete all Developmental Education requirements prior to starting the program.
6. Submit a copy of birth certificate to establish U.S. Citizenship.
7. Complete a flight physical exam with an FAA-designated Aviation Medical Examiner. Recommend a second-class medical certificate at a minimum. To help locate a qualified doctor go to <https://www.faa.gov/pilots/amelocator> for a list by city and state.

For more information on what you can do with this major, visit CMU Tech's [Programs of Study](#) page.

All CMU/CMU Tech associate graduates are expected to demonstrate proficiency in specialized knowledge/applied learning, quantitative fluency, communication fluency, critical thinking, personal and social responsibility, and information literacy. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Acquire substantial aeronautical knowledge of Private Pilot, Commercial Pilot and Instrument Flight contained in a FAA Part 141 curriculum. (Specialized Knowledge, Information Literacy)
2. Demonstrate flight proficiency skills in Private Pilot, Commercial Pilot and Instrument Flight operations contained in a FAA Part 141 curriculum. (Specialized Knowledge)

3. Demonstrate strong quantitative literacy skills and the ability to think critically in a demanding environment. (Quantitative Literacy, Critical Thinking)
4. Evaluate and implement FAA standards for aviation safety, Aeronautical Decision Making, and accident reporting, including evaluating personal limitations. (Specialized Knowledge, Critical Thinking, Communication Fluency)
5. Implementation of the FAA required physiological limitations and best practices in the performance of professional pilot duties. (Specialized Knowledge, Personal and Social Responsibility)

Requirements

The following institutional degree requirements apply to all CMU and CMU Tech Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/CMU Tech.
- 2.00 cumulative GPA or higher in all CMU/CMU Tech coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and CMU Tech Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/CMU Tech.
- 2.00 cumulative GPA or higher in all CMU/CMU Tech coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and

internships, cannot exceed 20 semester credit hours for an AAS degree.

- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Specific to this degree:

- 66 semester hours total for the AAS, Aviation Technology: Fixed Wing with Prior FAA Pilot License.
- Must hold at least one or any combination of the following: a current FAA private pilot license, a current FAA commercial pilot license, and/or a current FAA instrument pilot rating. A copy of the current FAA license(s) must be housed in the Registrar's Office as part of the student's permanent record.
- Credit granted for prior FAA licensures applies only to this Aviation Technology program.
- A minimum of 40 semester hours must be taken at CMU in no fewer than three semesters.
- A cumulative grade point average of 2.5 or higher must be maintained for all courses taken.

Essential Learning Requirements

(16 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Code	Title	Semester Credit Hours
Communication		
ENGL 111	English Composition I-GTCO1	3
Select one of the following courses:		3
ENGL 112	English Composition II-GTCO2	
SPCH 101	Interpersonal Communication	
SPCH 102	Speechmaking	
Mathematics		
MATH 108	Technical Mathematics	4
Other Essential Learning Core Courses		
GEOL 103	Weather and Climate-GTSC2	3
PSYC 150	General Psychology-GTSS3	3
Total Semester Credit Hours		16

Other Lower Division Requirements

Code	Title	Semester Credit Hours
Wellness Requirement		
KINE 100	Health and Wellness	1
Select one Activity course		1
Total Semester Credit Hours		2

Program Specific Degree Requirements

(48 semester hours, must be completed with a grade of "C" or better. A cumulative grade point average of 2.5 or higher must be maintained for all courses taken.)

Code	Title	Semester Credit Hours
Pilot Certification Courses - Each Category Must Be Satisfied to Earn the Degree		
<i>Private Pilot - Complete one of the following:</i>		8
FAA Private Pilot License ¹		
AVTN 101 & AVTN 102	Private Pilot Ground School and Private Pilot Flight ²	
<i>Instrument Rating - Complete one of the following:</i>		8
FAA Instrument Rating ^{1,5}		
AVTN 111 & AVTN 112	Instrument Pilot Ground School and Instrument Pilot Flight ³	
<i>Commercial Pilot - Complete one of the following:</i>		9
FAA Commercial Pilot License ^{1,5}		
AVTN 201 & AVTN 202 & AVTN 203	Commercial Pilot Ground School and Commercial Pilot Flight I and Commercial Pilot Flight II ⁴	
Required Courses		
AVTN 105	Aviation Meteorology	4
AVTN 140	Aircraft Systems	4
AVTN 206	Crew Resource Management	1
AVTN 218	ATC Procedures	4
AVTN 205	Mountain Flying Ground School	1
AVTN 245	Aviation Safety	2
AVTN 247	Aviation Physiology	2
Track Courses		
Complete one of the following tracks		5
<i>Track 1: Flight Instructor</i>		
AVTN 211	Fundamentals of Instruction	
AVTN 212	Flight Instructor Ground School	
AVTN 213	Flight Instructor Flight (8.5 hrs) ⁶	
<i>Track 2: Multi-Engine Pilot</i>		
AVTN 207	Multi-Engine Ground School	
AVTN 208	Multi-Engine Flight (12 hrs) ⁶	
Elective Hours (3)		

¹ Credit granted for prior FAA licensures applies only to the Aviation Technology program.

² AVTN 102 has 46.5 required flight hours.

³ AVTN 112 has 39 required flight hours.

⁴ AVTN 202 has 53 required flight hours. AVTN 203 has 68.5 required flight hours.

⁵ Students who do not complete the Instrument Rating and Commercial Pilot Certificate at an FAA approved Part 141 school will not qualify for Restricted-ATP certification.

⁶ Hours in parenthesis following the course title indicate required flight hours.

Suggested Course Plan

(Students who do not complete the Instrument Rating and Commercial Pilot Certificate at an FAA approved Part 141 school will not qualify for Restricted-ATP certification.)

First Year		Semester Credit Hours
Fall Semester		
AVTN 101	Private Pilot Ground School	4
AVTN 102	Private Pilot Flight	4
MATH 108	Technical Mathematics	4
GEOL 103	Weather and Climate-GTSC2	3
KINE 100	Health and Wellness	1
Semester Credit Hours		16
Spring Semester		
AVTN 111	Instrument Pilot Ground School	4
AVTN 112	Instrument Pilot Flight	4
AVTN 105	Aviation Meteorology	4
AVTN 140	Aircraft Systems	4
AVTN 206	Crew Resource Management	1
Semester Credit Hours		17
Second Year		
Fall Semester		
AVTN 201	Commercial Pilot Ground School	2
AVTN 202	Commercial Pilot Flight I	4
AVTN 218	ATC Procedures	4
ENGL 111	English Composition I-GTC01	3
PSYC 150	General Psychology-GTSS3	3
KINA Activity Course		1
Semester Credit Hours		17
Spring Semester		
AVTN 203	Commercial Pilot Flight II	3
AVTN 205	Mountain Flying Ground School	1
AVTN 245	Aviation Safety	2
AVTN 247	Aviation Physiology	2
SPCH 101	Interpersonal Communication	3
Complete one of the following tracks:		5
Track 1: Flight Instructor ¹		
Track 2: Multi-Engine Pilot ²		
Semester Credit Hours		16
Total Semester Credit Hours		66

¹ Track 1: Flight Instructor requires AVTN 211 (2 credits), AVTN 212 (2 credits), and AVTN 213 (1 credit).

² Track 2: Multi-Engine Pilot requires AVTN 207 (1 credit), AVTN 208 (1 credit), and Elective Hours (3 credits).

Advising and Graduation Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for their intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found on the [Graduation](#) web page.

If a student's petition for graduation is denied, it will be their responsibility to apply for graduation in a subsequent semester. A student's "Intent to Graduate" does not automatically move to a later graduation date.