

FIXED WING, AVIATION TECHNOLOGY (AAS)

Degree: Associate of Applied Science
Major: Aviation Technology
Emphasis: Fixed Wing
Program Code: 1378

About This Major . . .

The Aviation Technology program with a Fixed Wing emphasis will provide technical certificate for college credit as identified in the Colorado Mesa University mission established by the Colorado Legislature. The goals of the program are: prepare the 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. Must complete all Developmental Education requirements prior to starting the program.
2. Submit a copy of your birth certificate to establish U.S. Citizenship.
3. Complete a flight physical exam with an FAA-designated Aviation Medical Examiner. Recommend a second class medical certificate minimum. To help locate a qualified doctor go to <http://ame.cami.jccbi.gov> for a list by city and state.

For more information on what you can do with this major, visit WCCC's Programs of Study (<https://www.coloradomesa.edu/wccc/programs/>) page.

All CMU/WCCC 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.
2. Demonstrate flight proficiency skills in Private Pilot, Commercial Pilot and Instrument Flight operations contained in a FAA Part 141 curriculum.
3. Demonstrate strong quantitative literacy skills and the ability to think critically in a demanding environment.

Requirements

Each section below contains details about the requirements for this program. Select a header to expand the information/requirements for that particular section of the program's requirements.

To print or save an overview of this program's information, including the program description, learning outcomes, requirements, suggested course sequencing (if applicable), and advising and graduation information, scroll to the bottom of the left-hand navigation menu and select 'Print Options.' This will give you the options to either 'Send Page to Printer' or 'Download PDF of This Page.' The 'Download PDF of This Page' option

prepares a much more concise presentation of all program information. The PDF is also printable and may be preferable due to its brevity.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC 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/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC 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.
- 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-GTC01	3
Select one of the following courses:		3
ENGL 112	English Composition II-GTC02	
SPCH 101	Interpersonal Communications	
SPCH 102	Speechmaking	

Mathematics

MATH 108	Technical Mathematics	4
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Other Essential Learning Core Courses

GEOL 103	Weather and Climate-GTSC2	3
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PSYC 150	General Psychology-GTSS3	3
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Total Semester Credit Hours		16
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Other Lower Division Requirements

Code	Title	Semester Credit Hours
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Wellness Requirement

KINE 100	Health and Wellness	1
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Select one Activity course		1
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Total Semester Credit Hours		2
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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
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Core Courses

AVTN 101	Private Pilot Ground School	4
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AVTN 102	Private Pilot Flight (46.5 hrs) ¹	4
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AVTN 111	Instrument Pilot Ground School	4
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AVTN 112	Instrument Pilot Flight (39 hrs) ¹	4
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AVTN 105	Aviation Meteorology	4
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AVTN 140	Aircraft Systems	4
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AVTN 206	Crew Resource Management	1
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AVTN 201	Commercial Pilot Ground School	2
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AVTN 202	Commercial Pilot Flight I (53 hrs) ¹	4
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AVTN 203	Commercial Pilot Flight II (68.5 hrs) ¹	3
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AVTN 218	ATC Procedures	4
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AVTN 205	Mountain Flying Ground School	1
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AVTN 296	Topics: (Special Topics - Safety)	2
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AVTN 296	Topics: (Special Topics - Physiology)	2
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Track Courses

Complete all courses in one of the following tracks		5
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Track 1 - CFI:

AVTN 211	Fundamentals of Instruction	
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AVTN 212	Flight Instructor Ground School	
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AVTN 213	Flight Instructor Flight (8.5 hrs) ¹	
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Track 2 - Multi-Engine:

AVTN 207	Multi-Engine Ground School	
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AVTN 208	Multi-Engine Flight (12 hrs) ¹	
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Elective - Special Topics 296

Total Semester Credit Hours		48
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¹ Hours in parenthesis following the course title indicate required flight hours.

Suggested Course Plan**First Year****Fall Semester**

		Semester Credit Hours
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 First Mod

AVTN 203	Commercial Pilot Flight II	3
AVTN 205	Mountain Flying Ground School	1
AVTN 296	Topics: (Special Topics - Safety)	2
AVTN 296	Topics: (Special Topics - Physiology)	2
AVTN 211	Fundamentals of Instruction	2
AVTN 212	Flight Instructor Ground School	2
AVTN 213	Flight Instructor Flight	1
SPCH 101	Interpersonal Communications	3
Semester Credit Hours		16

Spring Semester Second Mod

AVTN 203	Commercial Pilot Flight II	3
AVTN 205	Mountain Flying Ground School	1
AVTN 296	Topics: (Special Topics - Safety)	2
AVTN 296	Topics: (Special Topics - Physiology)	2
AVTN 207	Multi-Engine Ground School	1
AVTN 208	Multi-Engine Flight	1
Elective - Special Topics 296		3
SPCH 101	Interpersonal Communications	3
Semester Credit Hours		16

Total Semester Credit Hours

82

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 her/his 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 at <http://www.coloradomesa.edu/registrar/graduation.html>.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.