

AIRFRAME AND POWERPLANT MECHANIC (AAS)

Overview

Degree: Associate of Applied Science
Major: Airframe and Powerplant Mechanic
Program Code: 1401

This program is pending FAA approval and as such is not yet an approved program for which students may enroll.

The Airframe and Powerplant Mechanic program will certify students to safely and legally perform installations and repairs on aircraft under current FAA regulations. Students will earn their General Mechanic, Airframe Mechanic, and Powerplant Mechanic certifications through the FAA. The program will prepare students to enter the workforce in a high demand, well paying industry.

Important information about this program:

- Additional Program Cost - \$1500-\$2500 for tools which students will retain for use during employment upon completion of the program.
- Cumulative grade point average of 2.5 or higher must be maintained for all courses taken.

For more information on what you can do with this major, visit Career Services' [What to Do with a Major?](#) resource.

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 knowledge and skills for General and Airframe Mechanic certification contained in the FAA Part 147 curriculum. (Specialized Knowledge, Information Literacy)
2. Examine and implement FAA standards for aviation safety, and aeronautical decision making, including evaluating personal limitations. (Specialized Knowledge, Critical Thinking, Communication Fluency)
3. Acquire knowledge and skill for Powerplant Mechanic certification contained in the FAA Part 147 curriculum. (Specialized Knowledge, Information Literacy)
4. Demonstrate quantitative literacy skills and the ability to think critically in a demanding environment. (Quantitative Literacy, Critical Thinking)

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 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:

- 64 semester hours required for the Airframe and Powerplant Mechanic AAS.
- 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
English		
ENGL 111	English Composition I-GTC01	3
Select one of the following courses:		
ENGL 112	English Composition II-GTC02	3
SPCH 101	Interpersonal Communication	

SPCH 102	Speechmaking	
Mathematics		
MATH 108	Technical Mathematics	4
Other Essential Learning Core Courses		
PSYC 150	General Psychology-GTSS3	3
Select one of the following:		3
CHEM 111	Introduction to Concepts of General Chemistry	
ENVS 101	Introduction to Environmental Science-GTSC2	
GEOL 103	Weather and Climate-GTSC2	
PHYS 101	Elementary Astronomy-GTSC2	
Total Semester Credit Hours		16

Other Lower Division Requirements

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

Program Specific Degree Requirements

(46 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
APMT 101	Introduction to Airframe and Powerplant Mechanic	4
APMT 102	Regulations and Computations	4
APMT 103	Aircraft Materials I	4
APMT 104	Aircraft Systems for Airframe & Powerplant I	4
APMT 111	Electrical Systems in Aircraft	4
APMT 113	Aircraft Materials II	4
APMT 114	Aircraft Systems for Airframe & Powerplant II	4
APMT 118	Systems Troubleshooting	1
APMT 205	Reciprocating Engines I	4
APMT 206	Reciprocating Engines II	4
APMT 215	Turbine Engines I	4
APMT 216	Turbine Engines II	4
APMT 218	Engine Troubleshooting	1
Total Semester Credit Hours		46

Suggested Course Plan

First Year		Semester Credit Hours
Fall Semester		
APMT 101	Introduction to Airframe and Powerplant Mechanic	4
APMT 102	Regulations and Computations	4
APMT 103	Aircraft Materials I	4
APMT 104	Aircraft Systems for Airframe & Powerplant I	4
Semester Credit Hours		16

Spring Semester		
ENGL 111	English Composition I-GTC01	3
APMT 111	Electrical Systems in Aircraft	4
APMT 113	Aircraft Materials II	4
APMT 114	Aircraft Systems for Airframe & Powerplant II	4
APMT 118	Systems Troubleshooting	1
Semester Credit Hours		16

Second Year		
Fall Semester		
APMT 205	Reciprocating Engines I	4
APMT 206	Reciprocating Engines II	4
APMT 215	Turbine Engines I	4
APMT 216	Turbine Engines II	4
APMT 218	Engine Troubleshooting	1
Semester Credit Hours		17

Spring Semester		
MATH 108	Technical Mathematics (or higher)	4
PSYC 150	General Psychology-GTSS3	3
KINE 100	Health and Wellness	1
KINA Activity Course		1
Choose one of the following:		3
ENGL 112	English Composition II-GTC02	
SPCH 101	Interpersonal Communication	
SPCH 102	Speechmaking	
Choose three credits of any Physical Sciences course		3
Semester Credit Hours		15
Total Semester Credit Hours		64

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.