

# Aviation Technology Associate of Applied Science Aircraft Powerplant Concentration

Full-Time, Fall Start

[www.pima.edu/aviation-aas](http://www.pima.edu/aviation-aas)

Basic skills that all graduates learn are common safety practices used when working on and around aircraft and related support equipment, how to identify and use applicable maintenance publications and documents, and knowledge and understanding of Federal Aviation Administration regulations.

**Special Admissions Program:** In order to be fully admitted to this program, you must fulfill the requirements listed on the program website. See the website or an advisor for details.

Students pursuing the Airframe Mechanics and/or Powerplant concentrations must complete courses in a specific order per 14 CFR, Part 147. See the Aviation Program Assistant or Applied Technology Advisor for more information regarding this requirement.

**Title IV Financial Aid eligibility:** Yes

## What can I do with this degree?

**Career options:** Work in the aircraft industry as an Aviation Maintenance Technician.

**Academic options:** This program may apply toward a Bachelor of Applied Science (BAS). See an advisor

### ***CHOOSE YOUR COURSES WITH YOUR COLLEGE ADVISOR***

## Placement

Students must meet prerequisite standards before taking GTW 101, the AVM courses, and to meet the Math Competency in the pathway below. If you are not prepared for these courses based on placement results you will need to take courses to build your skills prior to taking them. The sequence of courses follows.

Math: ICS 081 > MAT 092

Reading: ACL 080 > REA 091

If WRT 101 or 154 is chosen, additional coursework may be needed.

## Semester Pathway

This pathway is a suggested sequence of courses for your program of study. Work with an advisor to develop a unique pathway for you based on your placement recommendations, any prior college courses and your specific situation.

**General Education Note:** When General Education (Gen. Ed.) credits are listed below, select from the appropriate General Education course list linked from the program website. Some programs recommend specific courses.

For this pathway, ensure that one Gen. Ed. course fulfills the C or G requirement.

### **Semester 1 - Fall (Semester Total: 12.5 credits)**

**STU 100:** College Study Skills (1.0 credit)

**Gen. Ed.:** CTE Communication List. Recommend: GTW 101: Writing for Trades and Technical Occupations (3.0 credits)

**Gen. Ed.:** CTE Arts & Humanities List. Recommend: PHI 101 Introduction to Philosophy (3.0 credits)

**AVM 202:** Aviation Safety (2.5 credits)

**GTM 105V:** Applied Technical Mathematics for Aviation (3.0 credit)

**Semester 2 - Spring (Semester Total: 16.5 credits)**

**AVM 114:** Regulatory Requirements (3.0 credits)

**AVM 205:** Motion Dynamics (2.5 credits)

**AVM 206:** Materials and Processes (3.0 credits)

**AVM 207:** Weight and Balance (1.5 credits)

**AVM 110:** Aircraft Blueprint Reading (3.0 credits)

**AVM 208:** Basic Electricity (3.5 credits)

**Semester 3 - Fall (Semester Total: 3.5 credits)**

**AVM 231:** Engines, Principles, Monitoring and Inspection (3.5 credits)

**Semester 4 - Spring (Semester Total: 18.5 credits)**

**AVM 226:** Engine Electrical Systems (3.5 credits)

**AVM 227:** Engine Airflow Systems (2.5 credits)

**AVM 228:** Aircraft Propellers (2.5 credits)

**AVM 229:** Engine Support Systems (2.5 credits)

**AVM 232:** Reciprocating Engine Overhaul (3.5 credits)

**AVM 234:** Engine Fuel Metering and Operations (4.0 credits)

**Semester 5 - Summer (Semester Total: 10.0 credits)**

**AVM 233:** Turbine Engines (4.0 credits)

**Gen. Ed.:** CTE Social & Behavioral Sciences List. Recommend: or HIS 101 Introduction to Western Civilization I (3.0 credits)

**Gen. Ed.:** CTE Other List. Recommend CIS/CSA 104: Computer Fundamentals (3.0 credits)

**PROGRAM TOTAL: 61.0 credits**

Program/Major/Concentration Codes: **AASAVIATION/AVM1/AVMO**

**Find more information about this program at:  
[www.pima.edu/aviation-aas](http://www.pima.edu/aviation-aas)**