

# Aviation Maintenance Technology

Associate of Applied Science (A.A.S.)

## Transfer Options

- Arkansas State University-Jonesboro
  - BAS Organizational Supervision
- Oklahoma State University Institute of Technology
  - Bachelor of Technology Applied Technical Leadership
- University of Arkansas-Fort Smith
  - Bachelor of Applied Science

The Aviation Maintenance Technician school of SAU Tech is designed to provide up-to-date, intensive training for this occupational field. Completion of this school, certified by the Federal Aviation Administration (FAA) under Title 14 CFR Part 147, meets the training and experience requirements of the FAA for Airframe and/or Powerplant certificate ratings. The number of credit hours is determined by the FAA.

The Aviation Maintenance Technology curriculum is divided into three parts: General, Airframe, and Powerplant. A student enrolling in this course of study must first enroll for the general curriculum. Upon completion of the general section, the student may elect to pursue the Airframe and/or Powerplant section.

Completion of the general curriculum qualifies the student for an Aviation General Certificate of Proficiency. Further successful completion of the Airframe and/or Powerplant courses satisfies FAA requirements of training and experience prior to testing for either or both of these ratings. Students will be awarded technical certificates upon reaching the Airframe and/or Powerplant training milestones. Though not required for FAA certification, this institution does offer an A.A.S. degree in this field. In order to qualify for the A.A.S. degree the student must complete the prescribed program of General, Airframe, and Powerplant sections, plus the additional General Education requirements. Aviation maintenance technicians may expect to gain employment in a wide variety of fields and locations. Various fields include but are not limited to airline, manufacturing, repair station, charter operation, corporate, general aviation, and airport operation. Very lucrative aviation maintenance positions are available in state as well as across the nation and worldwide. Skill sets acquired through the program also directly fit many job requirements for the missiles/defense industry and other technical fields.

## Program Goal

The Aviation Maintenance Technology program will provide students with entry-level job-specific skills training and preparation for FAA certification testing in Airframe and Powerplant Mechanics.



DEGREE PLAN  
2020-2021

## Developmental Coursework

Course Number	Course Title
ENGL0121	Composition I Lab

## Semester I (Fall Semester Only) (15 hours)

Course Number	ACTS#	Course Title
<sup>1</sup> AM1003	N/A	Fundamentals of Math & Physics
<sup>1</sup> AM1503	N/A	Aircraft Standards I
<sup>1</sup> AM1603	N/A	Aircraft Standards II
<sup>1</sup> AM1703	N/A	Basic Electricity
<sup>1</sup> AM1803	N/A	Aircraft Science

## Semester II (20 hours)

Course Number	ACTS#	Course Title
<sup>2</sup> AM2106	N/A	Aircraft Sheet Metal [P1]
<sup>2</sup> AM2203	N/A	Aircraft Fabric and Finish [P1]
<sup>2</sup> AM2205	N/A	Inspection and Assembly [P1]
<sup>2</sup> AM2206	N/A	Aircraft Fluid Power [P1]

## Semester III (19 hours)

Course Number	ACTS#	Course Title
<sup>2</sup> AM2105	N/A	Aircraft Electricity [P1]
<sup>3</sup> AM2108	N/A	Reciprocating Engines [P1]
<sup>2</sup> AM2204	N/A	Aircraft Environment [P1]
<sup>3</sup> AM2302	N/A	Propellers [P1]

## Semester IV (21 hours)

Course Number	ACTS#	Course Title
<sup>3</sup> AM2208	N/A	Turbine Engines [P1]
<sup>3</sup> AM2305	N/A	Powerplant Electrical & Ignition Systems [P1]
<sup>3</sup> AM2405	N/A	Powerplant Systems I [P1]
<sup>3</sup> AM2403	N/A	Powerplant Systems II [P1]

## Additional Requirements for A.A.S. Degree (12 hours)

Course Number	ACTS#	Course Title
ENGL1113	ENGL1013	Composition I [P2]
MIS1003	CPSI1003	Introduction to Computers
CJ1003	CRJU1023	Introduction to Criminal Justice or ECON(Economics), GEOG, HIST, PSCI, PSYC, or SOC prefix
<i>Choose three (3) hours from the courses below:</i>		
CO2213	ENGL2023	Technical Writing [P3]
ENGL1123	ENGL1023	Composition II [P3]

Total Credit Hours: 87

<sup>1</sup> Indicates Certificate of Proficiency in <b>Aviation Maintenance (15 hours)</b> .
<sup>2</sup> Indicates Technical Certificate in <b>Aviation Maintenance Airframe (29 hours)</b> .
<sup>3</sup> Indicates Technical Certificate in <b>Aviation Maintenance Power Plant (31 hours)</b> .

## PREREQUISITES

P1	AM1003-Fund of Math & Physics; AM1503-Aircraft Standard I; AM1603-Aircraft Standard II; AM1703-Basic Electricity; AM1803-Aircraft Science.
P2	Refer to the SAU Tech Placement Plan.
P3	ENGL1113-Composition I.

## Program Learning Outcomes (PLOs)

- PLO 1. Aviation Maintenance Technology students will demonstrate the skills necessary to perform all tasks required in accordance with FAA Regulations Part 147 Appendix B General Curriculum standards.
- PLO 2. Aviation Maintenance Technology students will demonstrate the skills necessary to perform all tasks required in accordance with FAA Regulations Part 147 Appendix C Airframe Curriculum standards.
- PLO 3. Aviation Maintenance Technology students will demonstrate the skills necessary to perform all tasks required in accordance with FAA Regulations Part 147 Appendix D Powerplant Curriculum standards.

## General Information

- Developmental coursework may be required in addition to the courses required for this degree and/or certificate(s).
- A [P] indicates that a prerequisite is required before the course can be taken. Refer to the prerequisites table listed below the degree plan or the course description in the College Catalog to determine the prerequisite.

## General Requirements

- This degree requires successful completion of 87 credit hours.
- A minimum 2.00 cumulative grade point average is required for graduation.

## Residency Requirement

The student is required to complete a minimum of 15 semester hours in residence at SAU Tech for associate degrees and technical certificates and half of the credit hours required for certificates of proficiency as well as complete all other graduation requirements. Students who wish to pursue additional degrees must complete a minimum of 15 credit hours of difference between the degrees.

## ACTS Course Numbers

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and equitable treatment in the application of credits for admissions and degree requirements. Go to <http://acts.adhe.edu> for more information.