

AVIATION MAINTENANCE TECHNOLOGY DEGREE (A.A.S) PROGRAM

The program is intended to provide students with an introduction to the occupational area of aviation maintenance technology as currently understood and practiced by Federal Aviation Administration mechanic certificate holders with airframe and/or powerplant ratings. In addition, the combined powerplant and airframe curriculum is designed to provide students with the technical knowledge and skills required to diagnose problems and repair aircraft powerplants; reciprocating and turbine, their systems and components; and airframes, both metal and wood, their systems and components. Satisfactory completion of all program courses entitles students to participate in FAA powerplant and airframe examinations and certification.

FAA Air Agency Certificate 1CVT581K

GENERAL INFORMATION

Aviation Maintenance Technology is a two year program that emphasizes aircraft maintenance theory and practical application necessary for successful employment in the field. Areas of instruction include aircraft electrical, electronic, hydraulic, pneumatic, and mechanical systems as well as maintenance, application, and troubleshooting.

ADMISSIONS PROCEDURES

1. A maximum of 24 students are accepted each Spring and Fall Quarters.
2. Applicants must be at least 16 years of age and have a high school diploma or GED.
3. Submit an application form, \$15 application fee, and a certified copy of a high school transcript or GED.
4. Schedule a time to take the COMPASS placement exam or submit recent SAT scores.
5. Transfer students may apply, but previous course work will be evaluated for credit on an individual basis.

ESTIMATED COSTS

\$5868 Tuition for entire program (8 quarters/full-time)
\$ 35 Instructional/Technology Fee quarterly*
\$ 100 Books quarterly (full-time)
\$ 70 Uniform Rental Fee quarterly*

Students will also have to purchase required tools during their first quarter and these vary depending on brand and location purchased.

(*These fees are not covered by HOPE)

FINANCIAL AID

HOPE Scholarship, PELL Grant, Veterans Aid benefits and other programs (loans, WIA, & scholarships) are available to eligible students. Contact the financial aid office for more information.

JOB PLACEMENT

Placement services are available to all students through training support for workforce development that prepares students for employment in the aviation industry. Graduates can obtain employment with airport fixed base operations, charter air services, regional or major airlines, the military, aviation suppliers, manufacturers, and the FAA.

PROGRAM COURSES

The AMT Degree program will provide 157 credit hours and 2,400 instructional hours.

Courses include:

Aviation Math and Physics
Aircraft Maintenance Regulations
Aircraft Electricity and Electronics
Aircraft Applied Sciences
Airframe Welding
Airframe Structures
Aircraft Sheet Metal and Non-Metallic Structures
Airframe Assembly and Rigging
Aircraft Hydraulic and Pneumatic Systems
Aircraft Landing Gear Systems
Aircraft Environmental Control Systems
Electrical, Communication and Navigation Systems
Airframe Inspections
Aircraft Reciprocating Engines I and II
Aircraft Gas Turbine Powerplants I and II
Aircraft Engine Fuel and Fuel Metering Systems
Aircraft Engine Electrical, Ignition and Starting Systems
Aircraft Powerplant Accessory Systems
Aircraft Engine Inspection
College Algebra & PreCalculus
English, Humanities, Psychology, Speech, Physics, etc.
Introduction to Microcomputers

Individuals with disabilities requiring assistance or accommodations for services, programs, or activities should contact Sheila Parker, CVTC ADA and Section 504 Coordinator; Room A-115 on CVTC's Main Campus in Floyd County, One Maurice Culberson Drive, Rome GA 30161, or call 706-295-6517. Mrs. Parker's email is sparker@coosavalleytech.edu. If hearing impaired, call: 1-800-255-0056.



AVIATION MAINTENANCE TECHNOLOGY CERTIFICATE PROGRAM

Curriculum Outline

The curriculum that will be taught by Coosa Valley Technical College is certificated by the FAA and is designed to qualify the students to perform the duties of an airframe and/or powerplant mechanic. The curriculum will offer the following number of hours of instruction per rating:

| | | | | | |
|-----------------|-------------|-------------------|-------------|-----------------|-------------|
| General | 410 | General | 410 | General | 410 |
| <u>Airframe</u> | <u>790</u> | <u>Powerplant</u> | <u>800</u> | <u>Airframe</u> | <u>790</u> |
| <i>Total</i> | <i>1200</i> | <i>Total</i> | <i>1210</i> | <i>Total</i> | <i>2000</i> |

Description:

The standard curriculum for the Aviation Maintenance Technology program is set up on the quarter system. This program is designed to provide the students with the technical knowledge and skills required, to troubleshoot and repair aircraft systems, structures, and powerplants, both reciprocating and turbines. After satisfactory completion of all courses, students are eligible to be tested for their FAA Mechanic Certificate with both Airframe and Powerplant ratings.

LENGTH OF PROGRAM:

Five Quarters (daytime "A")
Five Quarters (daytime "P")
Eight Quarters (daytime "A&P")

First Quarter

| | |
|--|----------------------|
| AMT 100 Aviation Math | Contact Hours |
| AMT 101 Aircraft Maintenance Regulations | 30 |
| AMT 103 Aircraft Electricity & Electronics | 50 |
| AMT 121 Aviation Physics | 100 |
| | 30 |

Second Quarter

| | |
|-----------------------------------|----------------------|
| AMT 102 Aircraft Applied Sciences | Contact Hours |
| AMT 203 Airframe Welding | 200 |
| | 40 |

Third Quarter

| | |
|--|----------------------|
| AMT 201 Aircraft Airframe Structures | Contact Hours |
| AMT 202 Airframe Sheet Metal & Non-Metallic Structures | 50 |
| AMT 204 Aircraft Assembly & Rigging | 120 |
| | 50 |

Fourth Quarter

| | |
|--|----------------------|
| AMT 206 Aircraft Hydraulic & Pneumatic | Contact Hours |
| AMT 207 Aircraft Landing Gear Systems | 50 |
| AMT 208 Aircraft Environment Control Systems | 80 |
| | 150 |

Fifth Quarter

| | |
|--|----------------------|
| AMT 209 Aircraft Electrical, Communication, & Navigation Systems | Contact Hours |
| AMT 205 Airframe Inspection | 150 |
| | 100 |

Sixth Quarter

| | |
|--|----------------------|
| AMT 221 Reciprocating Engine Powerplant I | Contact Hours |
| AMT 223 Gas Turbine Powerplant I | 50 |
| AMT 226 Aircraft Engine Fuel & Fuel Metering Systems | 50 |
| | 120 |



Curriculum Outline (Continued)

Seventh Quarter

AMT 222 Reciprocating Engine Powerplant II
AMT 227 Aircraft Engine Electrical, Ignition, & Starting Systems

Contact Hours

150
150

Eighth Quarter

AMT 224 Gas Turbine Powerplant II
AMT 228 Aircraft Powerplant Accessory Systems
AMT 225 Aircraft Engine Inspection

Contact Hours

100
150
30

**Pre-Occupational Course Requirements
Associate of Applied Science Degree Program**

Classes taken during a student's pre-occupational period provide a foundation of knowledge built upon during the occupational program courses. Most of the courses must be taken before a student enters the AMT program of choice for which they qualify, but some may be taken during the occupational program period. Please contact CVTC's Director of Aviation for more information.

A.A.S. Degree program (to be taken prior to entering AMT Occupational courses):

Contact Hours

| | |
|--|----|
| SCT 100 Introduction to Microcomputers | 30 |
| ENG 1101 Composition and Rhetoric I | 50 |
| ENG 193 Composition and Rhetoric II | 50 |
| or | |
| HUM 1101 Introduction to Humanities | 50 |
| SPC 1101 Fundamentals of Speech | 50 |
| MAT 1111 College Algebra | 50 |
| MAT 1113 PreCalculus | 50 |
| PHY 1110 Introductory Physics | 70 |
| PSY 1101 Introductory Psychology | 50 |
| or | |
| ECO 1101 Principles of Economics | 50 |

**Note - all Pre-Occupational/General Education courses are not approved by the Federal Aviation Administration.*

AVIATION

