



Aviation Maintenance Airframe Certificate

2018–2019

DESCRIPTION:

Columbus State Community College offers training to prepare one for a career in aircraft maintenance. Aviation Maintenance Technician training has been, for many years, a door to opportunity for aircraft mechanic jobs, and related fields. Columbus State provides training for certification as an Airframe and Powerplant Maintenance Technician.

An Airframe and Powerplant Mechanic Certificate issued by the Federal Aviation Administration (FAA), under Title 14 of the Code of Federal Regulations Part 65 (14CFR65), is required for employment as an Aviation Maintenance Technician.

The Aviation Maintenance program at Columbus State prepares you with the entry-level knowledge, skills, and attitudes necessary to start your aviation maintenance career. It is an intense 1900 hour program. Your course work will include electrical, hydraulics, pneumatics, fire detection and protection, aerodynamics, structures, non-destructive testing, reciprocating and turbine engine theory and practical experiences. For more information, see csc.edu/academics/departments/aviation-maintenance.

ADMISSION REQUIREMENTS:

Additional requirements for admission to the program include the following:

- High School Graduate or Equivalency (PSEO students will be evaluated individually);
- Placement into ENGL 1100 Composition I;
- Placement into “No Reading Required” or transfer credit for ENGL 1100;
- Completion of MATH 1020 Beginning Algebra with grade of “C” or better, or placement into MATH 1030; and
- Meeting with AMT faculty.

ONGOING REQUIREMENTS:

Applicants to the Aviation Maintenance Technology program should understand that employment in the aviation industry requires stringent drug and alcohol screening as well as background/criminal and credit checks.

OPPORTUNITIES FOR GRADUATES:

Career:

Career and employment opportunities include major airlines, regional airlines, corporate aviation, general aviation, freight carriers, maintenance repair organizations, and government. Graduates may also pursue careers in manufacturing, non-destructive testing, automotive racing.

Transfer:

Transfer program options include Franklin University, Applied Management BS, and Ohio University, Technical Management BS.

CERTIFICATE REQUIREMENTS (AVIATION MAINTENANCE AIRFRAME CERTIFICATE):

FIRST SEMESTER - AUTUMN

Course	Term	Credits	Milestones/Progress Check
AMT 1101 Introduction to Aviation	AU/SP	2	
AMT 1102 Aircraft Weight and Balance	AU/SP	2	
AMT 1103 Aircraft Materials	AU/SP	4	
AMT 1104 AMT Regulations & Inspection	AU/SP	3	
AMT 1105 Ground Operations & Servicing	AU/SP	2	
Semester Credits		13	

SECOND SEMESTER - SPRING

Course	Term	Credits	Milestones/Progress Check
AMT 1106 Basic Electricity for the AMT	SP/SU	6	• FAA general subject areas completed.
AMT 2101 Aircraft Metallic Structures	AU/SP	6	
AMT 2102 Aircraft Electrical Systems	AU/SP	6	
Semester Credits		18	

SUMMER SESSION 1

Course	Term	Credits	Milestones/Progress Check
AMT 2103 Aircraft Instruments and Fire Protection	AU/SU	4	
AMT 2104 Aircraft Fuel Systems	AU/SU	2	
AMT 2105 Aircraft Non-Metallic Structures	AP/SU	5	
Semester Credits		11	

THIRD SEMESTER - AUTUMN

Course	Term	Credits	Milestones/Progress Check
AMT 2106 Communication & Navigation Systems	AU/SP	2	• Completion of General and Airframe program. • Eligible to test for FAA Airframe Mechanic certification.
AMT 2107 Aircraft Environmental Controls	AU/SP	2	
AMT 2108 Aircraft Landing Gear & Fluid Power	AU/SP	4	
AMT 2109 Airframe Inspection	AU/SU	6	
Semester Credits		14	
Total		56	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester
Requirements subject to change.