The Aviation and Applied Technologies Division of Chandler-Gilbert Community College offers a Federal Aviation Administration (FAA)-approved community college program in Aviation Maintenance Technology (AMT) in metro Phoenix at the Phoenix-Mesa Gateway Airport.

Delivered in a dynamic learning environment, the AMT program prepares students for certification as airframe and powerplant (A&P) technicians and for employment in entry-level positions in the aircraft maintenance industry.

The curriculum meets FAA requirements for the number of hours of instruction as well as the level and type of competency expected of the students in general, airframe, and powerplant subject areas.

Students applying for the AMT program must commit to attending class for five consecutive semesters, including summer, if they intend to receive both the airframe and powerplant certificates. If students are interested in only one certificate they must commit to attending classes for up to three consecutive semesters.

**Application Process**
The application process involves:
- Take a placement test required for English, math and reading.
- Send official transcripts.
- Complete and return all forms.
- Register for classes.

*Students with prior college coursework may be exempt from the placement tests.

For more information, contact:

Aviation Division Chair  
480.988.8103
Combined Airframe and Powerplant Certificate

Semester One 19 Credits
AMT 124 Aircraft Forms and Regulations, Weight and Balance, Drawings and Ground Operations 5
AMT 126 Fundamentals of Mathematics and Electricity 9
AMT 128 Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittings 5

Semester Two 15 Credits
AMT 220 Fundamentals of Aircraft, Wood Structures, Covering and Finishing and Bonded Structures 3
AMT 224 Aircraft Sheet Metal 5
AMT 228 Aircraft Electrical Systems, Instruments, Fuel Indicating Communication and Navigation 7

Semester Three 17 Credits
AMT 222 Atmosphere Control, Fire Detection, Ice and Rain Protection Systems 4
AMT 226 Aircraft Landing Gear, Hydraulic, Pneumatic, Fuel, Position and Warning Systems 7
AMT 230 Airframe Assembly, Inspection, and Welding 6

Semester Four 18 Credits
AMT 263 Aircraft Turbine Engines 7
AMT 268 Engine Electrical, Ignition and Starter Systems 6
AMT 270 Engine Instruments, Fire Protection, and Lubrication, Cooling and Exhaust Systems 5

Semester Five 17 Credits
AMT 264 Aircraft Reciprocating Engines 7
AMT 266 Engine Fuel Systems, Fuel Metering and Induction System 6
AMT 272 Propeller Systems and Engine Inspections 4

Student Note:

• Students wishing to complete either the certificate or the AAS degree must be willing to commit to approximately 40 hours per week.

• The combined certificate program contains 84 credits, equal to 1930 minimum hours of training for an Airframe and Powerplant certificate. The AAS degree requires an additional 18-27 credits from the following General Education Requirements.

General Education Requirements for an Associate of Applied Science Degree in Aircraft Maintenance Technology

ENG 101 First-Year Composition 3
ENG 107 First-Year Composition (ESL) 3
ENG 111 Technical Writing 3
ENG 102 First-Year Composition 3
COM 100 Introduction to Human Communication 3
COM 110 Interpersonal Communication 3
COM 225 Public Speaking 3
COM 230 Small Group Communication 3
CRE 101 Critical and Evaluative Reading or Test Exempt 3
MAT 120 Intermediate Algebra 5
or
MAT 122 Intermediate Algebra 3
HUM Any approved Humanities or Fine Arts course 2-3
SOC Any approved Social or Behavioral Sciences 3
PHY 101 Introduction to Physics 4
CGCC offers students affordable tuition and opportunities for a variety of scholarships.

Chandler-Gilbert Community College

Loop 202 Santan Fwy

CGCC Williams Campus
7360 E. Tahoe Ave.
Mesa, AZ 85212

MCCCD is an EEO/AA institution