

AIRCRAFT MAINTENANCE TECHNOLOGY - POWERPLANT, ASSOCIATE IN APPLIED SCIENCE



**APPLIED
TECHNOLOGY**

Associate in Applied Science: AAS 3665

75-83 Credits

Program Contact

Bashir Khalil | 480-988-8112 | bashir.khalil@cgc.edu

Program Description

The Associate in Applied Science (AAS) in Aircraft Maintenance Technology - Powerplant degree is designed to provide students with strong General Education skills in support of their aviation maintenance knowledge. This degree prepares students to enter careers in aircraft (fixed-wing and rotorcraft), powerplant manufacturing and maintenance. Students who complete this degree can potentially work in general, corporate, commercial, manufacturing, and military sectors. Graduates are eligible to apply for relevant Federal Aviation Administration (FAA) written, oral, and practical exams. A Certificate of Completion (CCL) in Aircraft Maintenance Technology - Powerplant is also available.

Program Notes

Students must earn a grade of "C" or better in all courses within the program. Overall program minimum GPA = 2.00.

++ indicates any suffixed course may be selected.

Admission Criteria

Students wishing to enroll in this Aircraft Maintenance Technology - Powerplant program must complete an application process before being officially accepted into the program.

Program Requirements

Program Prerequisites: None

| Code | Title | Credits | Semester |
|-------------------------|---|---------|----------|
| Required Courses | | | |
| AMT124 | Aircraft Forms and Regulations, Weight and Balance, Drawings, and Ground Operations | 5 | _____ |
| AMT126 | Fundamentals of Mathematics and Electricity | 9 | _____ |

| | | | |
|-------------------------------|--|-----|-------|
| AMT128 | Fundamentals of Aviation Physics, Corrosion Control, Materials and Processes, Fluid Lines and Fittin | 5 | _____ |
| AMT263 | Aircraft Turbine Engines | 5 | _____ |
| AMT264 | Aircraft Reciprocating Engines | 7 | _____ |
| AMT266 | Engine Fuel Systems, Fuel Metering and Induction System | 6 | _____ |
| AMT268 | Engine Electrical, Ignition and Starter Systems | 6 | _____ |
| AMT270 | Engine Instruments, Fire Protection And Lubrication, Cooling And Exhaust Systems | 5 | _____ |
| AMT272 | Propeller Systems and Engine Inspections | 4 | _____ |
| FYE101 | Introduction to College, Career and Personal Success | 1-3 | _____ |
| or FYE103 | Exploration of College, Career and Personal Success | | _____ |
| General Education | | | |
| Core | | | |
| <i>First-Year Composition</i> | | | |
| ENG101 | First-Year Composition | 3 | _____ |
| or ENG107 | First-Year Composition for ESL | | _____ |
| ENG102 | First-Year Composition | 3 | _____ |
| or ENG108 | First-Year Composition for ESL | | _____ |
| <i>Oral Communication</i> | | | |
| Select one of the following: | | 3 | _____ |
| COM100 | Introduction to Human Communication | | _____ |
| COM110 | Interpersonal Communication | | _____ |
| COM225 | Public Speaking | | _____ |
| COM230 | Small Group Communication | | _____ |
| <i>Critical Reading</i> | | | |
| Select one of the following: | | 0-3 | _____ |

| | | | |
|---|--|--------------|-------|
| CRE101 | College Critical Reading and Critical Thinking | | _____ |
| Or equivalent as indicated by assessment | | | _____ |
| <i>Mathematics</i> | | | |
| Select one of the following: | | 3-6 | _____ |
| MAT120 | Intermediate Algebra | | _____ |
| MAT121 | Intermediate Algebra | | _____ |
| MAT122 | Intermediate Algebra | | _____ |
| MAT126 | Intermediate Algebra with Review | | _____ |
| Distribution | | | |
| <i>Humanities, Arts and Design</i> | | | |
| Any approved general education course(s) from the Humanities, Arts and Design area | | 3 | _____ |
| <i>Social and Behavioral Sciences</i> | | | |
| Any approved general education course(s) in the Social and Behavioral Sciences area | | 3 | _____ |
| <i>Natural Sciences</i> | | | |
| PHY101 | Introduction to Physics | 4 | _____ |
| Total Credits | | 75-83 | _____ |