



## Aviation Maintenance Technology AAS Degree - 103 credits

Program Area: Aviation (Fall 2020)

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

### Program Description

The Airframe and Powerplant maintenance technician program trains students in the repair and scheduled maintenance of aircraft. This fully approved Federal Aviation Administration (FAA) program prepares graduates to repair and maintain commercial and general technically advanced aircraft found in today's market. Training will include study and hands-on experiences in reading and comprehending aircraft manuals, troubleshooting and repairing electrical malfunctions using electrical schematics, analyzing and repairing powerplant malfunctions, repair airframe structures and return aircraft to service, maintaining aircraft powerplant subsystems and determine their airworthiness in accordance with applicable FAA and manufacturer specifications.

### Program Outcomes

- Students will successfully pass the required FAA written testing required of an Airframe and Power Plant Mechanic
- Students will utilize appropriate technology as it pertains to the aviation industry
- Students will interpret various FAA Regulations that apply to maintenance in the aviation industry
- Students will apply appropriate safety work habits and procedures
- Students will apply principles of troubleshooting for various aircraft maintenance tasks
- Students will demonstrate the proper use of hand tools appropriate to the industry
- Students will use technical information provided by various aircraft manufacturers to perform aircraft maintenance
- Students will document various maintenance tasks according to FAA Regulations
- Students will read and interpret technical information found in the aircraft records
- Students will demonstrate the necessary skills to properly maintain an aircraft in an airworthy condition

### Required Courses

| Number                      | Name  | Credits | Term |
|-----------------------------|---|---------|------|
| AMT 1450                    | Fundamentals I  | 6       |      |
| AMT 1452                    | Fundamentals II   | 6       |      |
| AMT 1454                    | Aircraft Electrical   | 7       |      |
| AMT 1460                    | Flight Controls and Avionics Systems  | 6       |      |
| AMT 1462                    | Metallic Structures   | 7       |      |
| AMT 1464                    | Non-Metallic Structures   | 6       |      |
| AMT 1470                    | Aircraft Fuel and Landing Gear Systems  | 6       |      |
| AMT 1472                    | Cabin Control and Inspection  | 6       |      |
| AMT 2410                    | Reciprocating Engines I   | 7       |      |
| *AMT 2412                   | Propellers and Reciprocating Engine Repair  | 6       |      |
| *AMT 2414                   | Reciprocating Engine Inspection   | 6       |      |
| AMT 2420                    | Turbine Engines I   | 7       |      |
| *AMT 2422                   | Turbine Engines II  | 6       |      |
| *AMT 2430                   | AMT Capstone  | 6       |      |
| General Education Electives | <i>Choose from at least 3 different Goal Areas of the Minnesota Transfer Curriculum</i> | 15      |      |

**Total Credits** **103**

\*Requires a prerequisite or Instructor Approval



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### Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

#### English/Reading:

- A score of 250 or higher on the reading portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

#### Mathematics:

- A score of 250 or higher on the Arithmetic portion of the Accuplacer.

There are other ways to qualify. Visit [LSC Accuplacer](http://lsc.edu/Accuplacer) (lsc.edu/Accuplacer) to find out more.

For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the [professional advising team](mailto:pat@lsc.edu) (pat@lsc.edu) at 218-733-7601

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For more information about the Aviation Maintenance Technology AAS Degree including course descriptions, course prerequisites, and potential career opportunities, see [Program Website](https://degrees.lsc.edu/aircraft-mechanic) (https://degrees.lsc.edu/aircraft-mechanic)

or

Faculty Advisor, [William Beecroft](mailto:william.beecroft@lsc.edu) (william.beecroft@lsc.edu) or 218-733-6925  
Faculty Advisor, [Bill McMahan](mailto:bill.mcmahan@lsc.edu) (bill.mcmahan@lsc.edu) or 218-733-6971

**Air Agency Certificate Number 6LRT617K**



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