



Aviation Maintenance Technology AAS Degree - 103 credits
Program Area: Aviation (Fall 2019)

*****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 78 or higher on the reading comprehension 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 33 or higher on the **Elementary Algebra Skills** portion of the Accuplacer, or
- Completion of MATH 0520 (or equivalent course or higher). MATH 0520 may be taken concurrently with Semester I coursework.

*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) or 218-733-7601*

For more information about the Aviation Maintenance Technology AAS Degree including course descriptions, course prerequisites, the gainful employment disclosure, 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



MINNESOTA STATE

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