



## Aviation Maintenance Technology Diploma - 88 credits

Program Area: Aviation (Fall 2017)

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

### Program Description

The Airframe and Powerplant maintenance technician diploma 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.

*This 88-credit Diploma seamlessly transfers to the Aviation Maintenance Technology AAS (103 credits).*

### Program Outcomes

- Students will successfully pass the required FAA testing 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 1410	Aviation Maintenance Fundamentals I	4	
AMT 1412	Aviation Maintenance Fundamentals II	6	
AMT 1414	Aviation Physics and Math	3	
AMT 1416	Aviation Electricity and Electronics	5	
AMT 1418	Aircraft Finishing and Covering	2	
AMT 1420	Aircraft Rigging	6	
AMT 1422	Structures (Non-Metallic)	5	
AMT 1424	Structures (Sheet-Metal)	5	
AMT 1426	Aviation Welding	2	
AMT 1428	Cabin Atmosphere Control Systems	2	
AMT 1430	Electrical Systems	6	
AMT 1432	Fuel Systems	2	
AMT 1510	Hydraulic and Pneumatic Systems	6	
AMT 1512	Navigation, Communication, and Instrument Troubleshooting	5	
AMT 1514	Power Plant	7	
AMT 1516	Power Plant Inspection	5	
AMT 1518	Propeller Systems	5	
AMT 1520	Reciprocating Engines	6	
AMT 1522	Turbine Engines	6	

**Total Credits** **88**

\*Requires a prerequisite or a concurrent course



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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 at [pat@lsc.edu](mailto:pat@lsc.edu) or 218-733-7601*

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For more information about the Aviation Maintenance Technology Diploma including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program website: <https://degrees.lsc.edu/aircraft-maintenance/>

- or -

Contact Program Director, Dan Traska: [daniel.traska@lsc.edu](mailto:daniel.traska@lsc.edu) or 218-733-7737  
Faculty Advisor, Robert Wolfe: [robert.wolfe@lsc.edu](mailto:robert.wolfe@lsc.edu) or 218-733-7712  
or Tom Tyson: [thomas.tyson@lsc.edu](mailto:thomas.tyson@lsc.edu) or 218-733-6912

**Air Agency Certificate Number 6LRT617K**



MINNESOTA STATE

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