



## **Airframe Maintenance Technology A.A.S.**

Career Community: Transportation

Curriculum Code: 0757

Effective: Fall 2025 – Summer 2030

### **Purpose of the Major**

Airframe maintenance technicians maintain aircraft in accordance with Federal Aviation Regulations. Airframe technicians perform a wide variety of repairs and alterations to sheet metal and composite aircraft structures. In addition, they inspect and repair or replace complex aircraft components associated with hydraulic/pneumatic, communication/navigation, fuel and flight control systems. Aviation maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

### **Milestone**

Completion of AVGM 111, AVGM 112, AVGM 113, and AVGM 114, with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

### **Additional information**

Students are required to successfully complete the entire 6 semester program with a 2.0 or higher in each class that includes Basic Aviation Technology and Airframe Maintenance Technology in order to be eligible to test for Federal Aviation Administration (FAA) licensure as an Airframe and Powerplant (A&P) Mechanic. All program courses are offered one time per year and this is a full-time program. Program courses are offered in a required sequence. General Education courses may be taken any time throughout the program.

### **Contact Information**

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

**Major Required Courses** - *A minimum grade of 2.0 is required to meet LCC degree requirements for General Education courses and for all courses to transfer to other colleges (some colleges, and some programs within colleges, require a higher grade in a course).*

Course Code	Course Title	Credit / Billing Hours
ACAD 100	First-Year Experience	1 / 1
AUTM 102 or DCTM 102 or	Automotive/Collision Safety Industrial/Construction Safety	1 / 1 2 / 3

Course Code	Course Title	Credit/ Billing Hours
TECH 102	General Industry Safety	2 / 3
AVAF 125	Aircraft Systems I	2 / 2.75
AVAF 126	Aircraft Systems II	6 / 8.25
AVAF 127	Aircraft Systems III	3 / 4
AVAF 134	Aircraft Instruments	2 / 2.75
AVAF 140	Aircraft Welding	2 / 3
AVAF 208	Aircraft Structures I	4 / 5.5
AVAF 209	Aircraft Structures II	4 / 5.75
AVAF 210	Aircraft Structures III	4 / 6
AVAF 211	Aircraft Electrical I	4 / 5.75
AVAF 212	Aircraft Electrical II	4 / 5.75
AVAF 246	Airframe Certification	1 / 1.5
AVEL 202	Flight Line Testing	3 / 4
AVGM 111	Aviation General I	4 / 5
AVGM 112	Aviation General II	6 / 8
AVGM 113	Aviation General III	4 / 5
AVGM 114	Materials and Processes	5 / 7
COMM 110 or COMM 120 or COMM 130	Communication in the Workplace	3 / 3
	Dynamics of Communication	3 / 3
	Fundamentals Public Speaking	3 / 3
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131	Composition I	4 / 4
	Technical Writing	3 / 3
	Business Writing	3 / 3
	Honors Composition I	4 / 4
MATH 115 or MATH 119 or MATH 120 or STAT 170	Technical Mathematics	4 / 4
	Math – Applications for Living	4 / 4
	College Algebra	4 / 4
	Introduction to Statistics	4 / 4

Notes:

ACAD 100 may be waived when students meet one of the following College-approved waiver criteria:

- Completion of 12 college-level credits with minimum grades of 2.0 shown on the LCC transcript (including transfer, if applicable), or
- Employment in the field of, or a field related to, the degree being sought

Students wishing to waive ACAD 100 should contact their advisor.

Students considering future transfer, choose MATH 119 or MATH 120 or STAT 170.

**Program of Study Required Courses, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences** - *Select one as recommended or select one from [LCC General Education - Applied Degrees, Humanities and Fine Arts or Social Sciences or Applied Social Sciences](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
HUMS 223	The Western World to 1500	4 / 4
HUMS 224	The Western World since 1500	4 / 4
MGMT 234	Diversity in the Workplace	3 / 3
SOCL 120	Introduction to Sociology	4 / 4

Note: Students considering future transfer, choose HUMS 223, HUMS 224, or SOCL 120.

**Program of Study Required Courses, Limited Choice – Natural Sciences or Applied Sciences and Technology Lab** - *Select one lab course as recommended or select one from [LCC General Education - Applied Degrees, Natural Sciences or Applied Sciences and Technology Lab](#). A minimum grade of 2.0 is required for General Education courses.*

Course Code	Course Title	Credit / Billing Hours
ASTR 201	Introductory Astronomy	4 / 5
BIOL 120	Environmental Science	4 / 6
PHYS 200	Intro to Applied Physics	4 / 5

Note: Students considering future transfer, choose ASTR 201 or BIOL 120.

### **General Education - Applied Degree**

- English Composition or Applied English  
Major Required Courses will meet this requirement.
- English Composition (second course)/Communication or Applied Communication  
Major Required Courses will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences  
Major Required Limited Choice Courses will meet this requirement.
- Mathematics or Applied Mathematics  
Major Required Courses will meet this requirement.
- Natural Sciences Lab or Applied Sciences and Technology Lab  
Major Required Limited Choice Courses will meet this requirement.

### **Additional Credits**

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

## Minimum Total Credit Hours

76 credits / 99 billing hours

## Required Course Sequence

Semester I (Fall)
AVGM 111 – Milestone course
AVGM 112 – Milestone course
AVGM 113 – Milestone course
AVGM 114 – Milestone course

Semester II (Spring)
AVAF 125
AVAF 126
AVAF 140
AVAF 208
AVAF 211

Semester III (Summer)
ACAD 100
AUTM 102 or DCTM 102 or TECH 102
AVAF 127
AVAF 134
AVAF 212

Semester IV (Fall)
AVAF 209
AVAF 210
AVAF 246
AVEL 202

Semester V (Spring)
ENGL 121 or ENGL 124 or ENGL 127 or ENGL 131
COMM 110 or COMM 120 or COMM 130
MATH 115 or MATH 119 or MATH 120 or STAT 170
Limited Choice - Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Limited Choice – Natural Sciences Lab or Applied Sciences and Technology Lab

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.*