

Western Michigan University - College of Aviation

Program Learning Outcomes

Assessment in the COA is a continuous process of reaffirming the college and program's goals and objectives and determining whether our students are achieving them. It includes systematic collection, analysis, and application of the results of learning outcome assessment activities to improve program quality. The faculty of the College of Aviation has established learning outcomes that are specific to each of the three programs and learning outcomes for each AVS course within each program.

Each program has overall student learning outcomes specific to that program. These outcomes are detailed in the following paragraphs.

Aviation Science and Administration Learning Outcomes

Students who graduate from the Aviation Science and Administration program will:

- Understand the fundamental technical aspects of flight and aircraft systems and operation.
- Demonstrate knowledge of business principles and practices and their application to the aviation industry.
- Understand and appreciate the financial, economic, and market aspects of the aviation industry.
- Have knowledge of regulatory and legal issues which impact the industry.
- Gain knowledge of the business structure, management and administrative aspects of airlines, corporate flight operations and airport operations.

Aviation Maintenance Technology Learning Outcomes

Students who graduate from the Aviation Maintenance Technology program will:

- Demonstrate an in depth technical knowledge of aircraft systems and operation.
- Demonstrate appropriate skills, techniques, and accepted practices necessary for aircraft maintenance and determination of airworthiness.
- Apply cognitive reasoning skills to aircraft systems analysis and troubleshooting.
- Obtain the F.A.A. aircraft maintenance technician license with airframe and powerplant ratings.
- Have knowledge of regulatory and legal issues which impact the industry.

Aviation Flight Science Learning Outcomes

Students who graduate from the Aviation Flight Science program will:

- Understand the technical aspects of flight and aircraft systems and operation and demonstrate application of this knowledge.
- Demonstrate knowledge of national and international air space systems and the ability to operate within those systems.

- Obtain an F.A.A. commercial pilot single engine license with multi-engine and instrument ratings.
- Have knowledge of regulatory and legal issues which impact the industry. Demonstrate application of and adherence to applicable aviation regulations.

Assessment of Program Learning Outcomes

Program learning outcomes will be assessed every five years by measuring student outcome achievement against target metrics.