



#### Aviation Management Mission Statement

The Aviation Management Training Program at Southwestern Illinois College prepares the student for employment and continued education in the professional field of aviation. The program graduate will prove himself/herself to the aviation industry as an individual of professional knowledge and skill. He/she will maintain knowledge not only in the area of management skills but also have a working knowledge of Air Traffic Control Systems, Aviation Meteorology, Government Regulations and Flight Operations. Possible career opportunities include government, military, airline or corporate flight departments. Upon graduation the student may choose to enter the field of aviation or broaden a career path by entering the partnership with Southern Illinois University Carbondale Bachelor of Science Degree in Aviation Management. Individuals who choose a career in aviation submit to a rewarding lifelong dedication to continued education, excellence and safety.

#### Aviation Management Educational Goals:

The Aviation Management Program at Southwestern Illinois College will graduate students that can:

1. Define the terminology and explain the specific federal regulations governing flight operations.
2. Explain significant events in aviation history which established the need for federal regulatory requirements and specific changes in aircraft design and construction.
3. Demonstrate a working knowledge of aircraft, aircraft systems and aircraft component design and construction.
4. Demonstrate the ability to interpret the information contained in aviation weather reports and forecasts and explain the current and forecasted conditions by METARs and TAFs
5. Demonstrate the ability to summarize the design and operation of internal combustion engines and explain in detail the theory and method of safe operation.
6. Demonstrate a working knowledge of the domestic and international Air Traffic Control System and how the International Civil Aviation Organization (ICAO) influences the operation of the airline system.
7. Relate the role that code share carrier airlines have in the industry to Trunk Carriers, Major Carriers, and Flag Carriers.
8. Describe the concept of operation of the hub and spoke airline structure in the domestic airline system today.
9. Relate the differences and similarities of Federal Aviation Regulations Parts 135 and 121.
10. Describe the operational concept for the Extended Twin Engine Operations System (ETOPS) in the airline industry today.
11. Demonstrate a working knowledge of the federal tax structure established by the Federal Government, which funds the Airport Improvement Program (AIP).
12. Illustrate runway design features pertaining to Obstruction Clearance Requirements required by Federal Aviation Regulations under F.A.R. Part 77.
13. Demonstrate knowledge of the International Civil Aviation Organization (ICAO) and discuss their their role in international airline operations.
14. Demonstrate knowledge of the aerodynamic principals of flight.
15. Describe the actions required to manage personnel and resources while maintaining proper human relation skills and safety in the workplace.
16. Demonstrate knowledge of the legal system regarding equal employment opportunities, recruiting, orienting, training, and performance appraisals.
17. Demonstrate knowledge of the American legal system including contracts, workers' rights and employment.
18. Demonstrate basic individual computer skills related to advances in current technology in the Aviation industry.

*Submitted by: Keith Mueller*

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*Status: Accepted*