



Aviation Pilot Training Mission Statement and Educational Goals

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Division: Technical Education	Discipline: Aviation Pilot Training

Mission Statement

The Aviation Pilot Training Program at Southwestern Illinois College prepares the student for employment and continued education in the professional field of aviation. The program graduate will reflect himself/herself to the community as an individual of educational excellence and a professional worthy of the trust and confidence attained by his or her accomplishments. The graduate will hold a Federal Aviation Administration (FAA) Commercial Pilot Certificate with Instrument and Multi-Engine ratings. Individuals choosing a career in professional aviation will commit to a lifelong program of continued education and testing to insure their skills and meet the highest standards of proficiency and safety.

Educational Goals

This Discipline/Program at Southwestern Illinois College will graduate students that can:

1. Define the terminology and explain the specific federal regulations governing aviation flight operations.
2. Demonstrate proficiency and Pilot in Command skills to a Designated Pilot Examiner as outlined in the Federal Aviation Regulations Requirements under Part 61 for the Private Pilot Oral and Flight Examinations.
3. Demonstrate the ability to interpret the information contained in Aviation Weather Reports and Forecasts and explain the current and forecasted conditions by reported Metars and Taffs.
4. Demonstrate proficiency and Pilot in Command skills to a Designated Pilot Examiner as outlined in the Federal Aviation Regulations Requirements under Part 61 for the Instrument Pilot Oral and Flight Examination.
5. Demonstrate the ability to summarize the design and operation of aircraft internal combustion engines and explain in detail the theory and method of safe and proper operation.
6. Demonstrate proficiency and Pilot in Command skills to a Designated Pilot Examiner as outlined in the Federal Aviation Regulations Requirements under Part 61 for the Commercial Pilot Oral and Flight Examination.
7. Demonstrate proficiency and Pilot in Command skills to a Designated Pilot Examiner as outlined in the Federal Aviation Regulations for the oral and flight examination for the Multi-Engine Instrument Flight Examination.
8. 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 system worldwide.
9. Explain the theory of operation of gas turbine engines and interpret specific operational instrument indications and parameters. Additionally, the student must demonstrate knowledge of each power plant component and its function.
10. Recognize potential operational safety risks and determine appropriate action to eliminate operational risks.
11. Demonstrate the ability to analyze specific management requirements and determine proper steps to resolve issues.
12. Demonstrate the ability to analyze the flight operation maneuvers for Private and Commercial Pilots and successfully pass the Federal Aviation Knowledge exam for Flight Instructor Airplane category rating.
13. Demonstrate instrument flight skill requirements for basic attitude instrument flight by partial or full panel instrumentation.
14. Execute proper entry procedures into standard and nonstandard instrument holding patterns.
15. Demonstrate proper instrument approach procedures when executing precision and non-precision approach procedures.
16. Demonstrate flight skills in the execution of VOR, NDB, ILS, GPS, DME Arc and Localizer Back Course Instrument Approach Procedures.
17. Demonstrate flight proficiency in the execution of Standard Instrument Departures and Standard Terminal Arrival Procedures.
18. Demonstrate the minimum instrument skill requirements to meet the Federal Aviation Administration Instrument Competency Check as required by Part 61.57(d) (1) & (2) of the Federal Aviation Regulations.
19. Describe the concept of operation of the Hub and Spoke airline structure in the domestic airline system today.
20. Demonstrate knowledge of the International Civil Aviation Organization (ICAO) and discuss their role in international airline operations.
21. Demonstrate a working knowledge of the Federal Tax structure established by the government which funds the Airport Improvement Program (AIP).
22. Demonstrate operational knowledge of Federal Aviation Administration Air Traffic Control regulations and procedures.