

Common Course Outline
AVMT 247
Commercial Pilot Certification - Airplane
3 Credits

The Community College of Baltimore County

Description

AVMT 247 - 3 credits – Commercial Pilot Certification - Airplane provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificates, Airplane category, Single and Multi-Engine. Topics include preflight preparation, specialty takeoffs and landings, commercial pilot maneuvers, advanced navigation, slow flight, stalls, spin awareness, emergency procedures, safety, high-altitude flight operations, and postflight procedures. This course has additional lab fees.

3 credits; 3 lecture hours per week; approximately 45 hours at a flight training center
Prerequisites: AVMT 142, AVMT 246 or concurrent, or with Aviation Program Coordinator approval.

Overall Course Objectives

Upon completion of this course students will be able to:

1. demonstrate flight proficiency required for the FAA Commercial Pilot Certificate;
2. demonstrate proper specialty takeoffs and landings;
3. correctly perform commercial pilot maneuvers;
4. demonstrate flight by reference to instruments;
5. explain slow flight, stalls, and spin recovery;
5. demonstrate the proper use of advanced navigation equipment;
6. explain the operation and function of advanced aircraft systems;
7. identify factors relating to night and high altitude flight operations;
8. demonstrate correct pilot-controller communications;
9. identify meteorology elements and critical weather situations; and
10. recognize the importance of good aeronautical decision making, crew resource management, and sound judgment.

Major Topics

- I. Preflight planning
- II. Operation of complex and high performance aircraft
- III. Specialty takeoffs and landings
- IV. Commercial pilot maneuvers
- V. Advanced navigation systems
- VI. Stalls and spin awareness
- VII. High altitude operations
- VIII. Meteorology
- IX. Safety and emergency procedures
- X. Postflight procedures

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include four (4) in-class examinations and two (2) practical evaluations.

Writing: The individual faculty member will determine specific writing assignments such as special topic papers, current events reports, article or textbook summaries, research analysis papers, and personal journals.

Students are required to utilize appropriate academic resources.

Other Course Information

This course is designed to be used as a degree requirement or substituted course in the Aviation Management, Associate of Applied Science degree.

This course is taught in a classroom, simulator and flight environment.

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