

AVMT 237

Commercial Pilot Certification – Airplane I

2 Credits

Community College of Baltimore County Common Course Outline

Description

AVMT 237 – Commercial Pilot Certification I – Airplane: provides the initial phase of flight and simulator training towards completion of the Federal Aviation Administration (FAA) Commercial Pilot certificate, Airplane category, Single Engine (SE) class. Topics include specialty takeoffs and landings, commercial pilot maneuvers, cross country flight operations, night flying, emergency procedures, and safety. A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 233 and approval of the Aviation Program Director

Co-requisites: AVMT 236 or approval of the Aviation Program Director

Overall Course Objectives

Upon completion of this course, students will be able to:

1. demonstrate flight proficiency required for the FAA Commercial Pilot Airplane SE certificate;
2. demonstrate required specialty takeoffs and landings;
3. demonstrate required commercial pilot maneuvers;
4. demonstrate instrument navigation and en route procedures to commercial pilot standards;
5. utilize correct pilot-controller communications;
6. discuss advanced aerodynamics and the principles of high altitude flight;
7. explain the operation and function of advanced aircraft systems;
8. identify meteorology factors and critical weather situations;
9. demonstrate safe and efficient operation of both complex and high performance aircraft; and
10. summarize the importance of good aeronautical decision making and sound judgment.

Major Topics

- I. Commercial pilot maneuvers
- II. Specialty takeoffs and landings
- III. Safety and emergency procedures
- IV. Advanced aerodynamics, stalls and spin awareness
- V. Night and high altitude operations
- VI. Operation of complex and high performance airplanes
- VII. Operation and function of advanced aircraft systems
- VIII. Meteorology factors and critical weather situations
- IX. Aeronautical decision making and sound judgment
- X. Commercial Pilot Professionalism

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 2 skills-based evaluations
- comprehensive final exam
- 2 writing assignments such as flight plans, special topic papers, current events reports, article or textbook summaries, research or case study analysis papers, and personal journals

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

This course is required course in the Associate of Applied Science Professional Pilot Airplane Aviation Technology degree program.

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