

**Common Course Outline**  
**AVMT 249**  
**Commercial Pilot Certification – Airplane SE**  
**3 Credits**

**The Community College of Baltimore County**

**Description**

**AVMT 249 – 3 credits – Commercial Pilot Certification – Airplane SE** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Airplane category, Single 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 post flight procedures. This course has additional lab fees.

**3 credits:** 3 lecture hours per week; approximately 45 hours at a flight training center

**Prerequisite:** AVMT 142

**Corequisite:** AVMT 246 or 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. execute proper specialty takeoffs and landings;
3. perform commercial pilot maneuvers;
4. simulate flight in reference to instruments;
5. identify and assess slow flight, stalls, and spin recovery;
6. exhibit the proper use of advanced navigation equipment;
7. describe the operation and function of advanced aircraft systems;
8. identify factors relating to night and high altitude flight operations;
9. utilize correct pilot-controller communications;
10. identify and assess meteorological elements and critical weather situations; and
11. 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. Post flight procedures

### **Course Requirements**

**Grading/exams:** Grading procedures will be determined by the individual faculty member but will include a minimum of:

- four in-class examinations
- two practical evaluations.

**Writing:** The individual faculty member will assign a minimum of three writing assessments (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 taught in a classroom, simulator and flight environment.

Date revised: 11/4/2014