

## **AVMT 257**

### **Commercial Pilot Certification – Airplane Multi Engine**

2 Credits

## Community College of Baltimore County Common Course Outline

### **Description**

**AVMT 257 – Commercial Pilot Certification – Airplane Multi Engine:** provides academic, flight and simulator training required for the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Airplane category, Multi- Engine (ME) class. Topics include pre-flight planning, specialty takeoffs and landings, commercial pilot multi-engine operations, maneuvers, instrument procedures, advanced navigation, slow flight, emergency procedures, safety, and post-flight procedures. A valid FAA Medical Certificate is required. This course has additional lab fees.

**Pre-requisites:** AVMT 238 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 ME 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. demonstrate correct pilot-controller phraseology in radio communications;
6. discuss advanced aerodynamics and the principles of high altitude flight;
7. explain the operation and function of advanced aircraft systems;
8. interpret weather reports and forecasts to determine hazardous weather conditions;
9. demonstrate the safe and efficient operation of 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 a required course in the Associate of Applied Science Professional Pilot Airplane Aviation Technology degree program.

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