

Common Course Outline
AVMT 265
Certificated Flight Instructor Multi-Engine - Airplane
3 Credits

The Community College of Baltimore County

Description

AVMT 265 – 3 credits – Certificated Flight Instructor Multi-Engine Airplane presents academic, flight, and simulator training required for the Federal Aviation Administration (FAA) Certificated Flight Instructor – Multi-Engine (MEI) Airplane rating. Course includes the fundamentals of student instruction, pre-flight preparation, multi-engine airplane operations, complex aircraft systems, emergency procedures, safety, and post-flight procedures. This course has additional lab fees.

3 credits: 3 lecture hours per week; approximately 25 hours per semester at a flight training center.

Prerequisites: AVMT 246 and 247, or Aviation Program Coordinator approval.

Overall Course Objectives

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

1. describe the elements of instructor professionalism, effective teaching, and learning;
2. identify the principles of student evaluation and testing;
3. explain the key components of course development and lesson planning;
4. identify fundamental classroom and in-flight multi-engine airplane training techniques;
5. discuss FAA practical test standards and requirements for multi-engine airplane rating;
6. explain the aerodynamics of multi-engine flight operations and engine-out procedures;
7. describe the operation and function of multi-engine airplane systems;
8. explain specific multi-engine flight procedures in the terminal and enroute environment;
9. identify meteorology factors and critical weather situations; and
10. recognize the importance of good aeronautical decision making and sound judgment.

Major Topics

- I. Instructor professionalism, effective teaching and learning
- II. Student evaluation and testing
- III. Course development and lesson planning
- IV. Classroom and in-flight training techniques
- V. FAA practical test standards and requirements for multi-engine airplane rating
- VI. Aerodynamics of multi-engine flight operations and engine-out procedures
- VII. Operation and functions of multi-engine airplane systems
- VIII. Multi-engine airplane flight procedures
- IX. Meteorology factors and critical weather situations
- X. Aeronautical decision making and sound judgment

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 an elective or substituted course in the Aviation Management, Associate of Applied Science degree.

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