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

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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