AVMT 238
Commercial Pilot Certification – Airplane II
2 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 238 – Commercial Pilot Certification II – Airplane: provides the final phase of flight and simulator training required for the Federal Aviation Administration (FAA) Commercial Pilot certificate, Airplane category, Single Engine (SE) class. Refining the skills acquired in AVMT 237, students advance their skills in specialty takeoffs and landings, commercial pilot maneuvers, navigation, slow flight, stalls, spin awareness, emergency procedures, and safety. A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 237 and 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 to advanced proficiency standards;
3. master required commercial pilot maneuvers;
4. demonstrate instrument navigation and en route procedures to commercial pilot standards;
5. demonstrate correct pilot-controller communications;
6. apply the principles of advanced aerodynamics and high altitude flight;
7. explain the operation and function of advanced aircraft systems;
8. analyze meteorology factors and critical weather situations;
9. evaluate the safe and efficient operation of complex and high performance aircraft; and
10. employ 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 required course in the Associate of Applied Science Professional Pilot Airplane Aviation Technology degree program.

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