AVMT 233
Instrument Pilot Rating Airplane II
2 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 233 – Instrument Pilot Rating Airplane II: provides the final phase of flight and simulator training toward the completion of a Federal Aviation Administration (FAA) Instrument Pilot Rating, Airplane category. Topics include instrument approach procedures, instrument cross county flying, air traffic control clearances, departure and arrival procedures, holding, lost communication procedures, and single pilot resource management. A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 232 and approval of the Aviation Program Director

Overall Course Objectives

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

1. demonstrate full and partial panel instrument approaches;
2. distinguish between precision and non-precision approaches;
3. evaluate weather reports and the flight environment for cross-country flight;
4. prepare a cross country navigation log and revise as needed in flight;
5. file an instrument flight plan;
6. obtain an instrument clearance;
7. demonstrate proper holding pattern entry and procedures;
8. demonstrate appropriate actions in the event of a systems or equipment malfunction;
9. employ single pilot resource management;
10. discuss risk management strategies; and
11. demonstrate the level of flight proficiency required for an FAA Instrument Rating.

Major Topics

   I.   Instrument approach procedures
  II.   Instrument cross county flying
 III.   Air traffic control clearances
  IV.   Departure and arrival procedures
   V.   Flight plans
  VI.   Holding
 VII.   Lost communication procedures
VIII.   Unusual approach procedures
  IX.   Single pilot resource management

X. Advanced aviation weather
XI. FAA Airman Certification Standards

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 and an elective course in the Associate of Applied Science Professional Pilot Unmanned Aircraft Systems Aviation Technology Degree program.

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