AVMT 232
Instrument Pilot Rating Airplane I
2 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 232 – Instrument Pilot Rating Airplane I: provides the initial phase of flight and simulator training toward the completion of a Federal Aviation Administration (FAA) Instrument Pilot Rating, Airplane category. Topics include preflight preparation, air traffic control communication, flight by reference to instruments, navigation systems, instrument maneuvers, partial panel flying, and emergency procedures. A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 133 and approval of the Aviation Program Director
Co-requisites: AVMT 231 or approval of the Aviation Program Director

Overall Course Objectives

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

1. demonstrate proper preflight planning and procedures for an instrument flight;
2. identify all aircraft instruments and associated systems;
3. demonstrate Air Traffic Control radio communication procedures;
4. demonstrate the ability to effectively scan and cross-check instruments;
5. distinguish between the control-performance and primary-support concepts;
6. demonstrate constant rate and constant airspeed climbs and descents;
7. differentiate between various aircraft navigation systems;
8. demonstrate the ability to intercept and track radials and bearings;
9. demonstrate the ability to control the aircraft with a partial panel; and
10. demonstrate the ability to recover from unusual flight attitudes.

Major Topics

   I.   Preflight preparation
  II.   Instrument cockpit check
 III.   Flight by reference to instruments
 IV.   Navigation systems
  V.   Air traffic control communication
 VI.   Instrument maneuvers
VII.   Systems and equipment malfunction
VIII.   Partial panel flying
 IX.   Unusual flight attitudes

X. Instrument charts and resources

<u>Course Requirements</u>
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.

<u>Other Course Information</u>
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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