

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: 17.5 dual instrument instruction flight hours (20 hours total dual instruction flight time), 20 ground instruction hours, 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.

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

Course Requirements

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- two skills-based evaluations
- comprehensive final exam
- two 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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