

Common Course Outline

AVMT 060

Instrument Pilot Training

0 Credits, 3 Billable Hours

The Community College of Baltimore County

Description

Instrument Pilot Training provides academic, flight, and simulator training required for the Instrument Pilot Rating. Instruction includes preflight preparation, air traffic control clearances and procedures, flight by reference to instruments, navigation systems, instrument approach procedures, emergency operations, safety, and postflight procedures. Students successfully completing this course will receive their Instrument Pilot Rating.

Prerequisite: Private Pilot Certificate Lab Fee: \$6,000.

Overall Course Objectives

Upon successful completion of AVMT 060, students should be able to:

1. Describe the concept of flight by reference to instruments;
2. Recognize the signs and effects of instrument error as it relates to aircraft control;
3. Interpret various navigation instrument indications;
4. Given a flight plan routing, select VOR nav-aids and correctly set OBS headings;
5. Given a flight plan routing, select ADF nav-aids and correctly determine magnetic bearings;
6. Explain the 5 parts of an instrument approach procedure;
7. Given glideslope and localizer indications, determine the correct position of the aircraft;
8. Describe the principles of VOR, RNAV, NDB, ILS, LOC, and GPS approach procedures;
9. Explain the elements of flight planning;
10. Describe proper departure and arrival procedures for a given airport;
11. Describe correct pilot-controller communications;
12. Identify hazards to flight operations associated with various weather phenomena;
12. Explain aircraft performance criteria associated with instrument flight;

13. Identify applicable FAA regulations pertaining to instrument flight operations;
14. Explain the elements of Crew Resource Management and Aeronautical Decision-making; and
15. Given an emergency scenario, identify the proper action or response.

Major Topics

- I. Flight Instrument Systems
- II. Flight by Reference to Instruments
- III. Instrument Navigation
- IV. Instrument Approach Procedures
- V. Instrument Departures and Arrivals
- VI. Communications
- VII. Airports and Airspace
- VIII. FAA Regulations
- VIII. Basic Meteorology & Weather Reporting
- X. Flight Planning
- XI. Emergency Procedures
- XII. Crew Resource Management, Aeronautical Decision-making, and Aero-medical Factors

Course Requirements

Grading/exams: A minimum of two (2) exams will be administered in this course. Grading procedures will be determined by the individual faculty member.

Writing: A minimum of one (1) writing assignment will be required. The individual faculty member will determine specific writing assignments.

Other Course Information

This course is an elective for the Aviation Management degree program.

This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline. The Community College of Baltimore County (“CCBC”) is committed to providing a high-quality learning experience that results in growth in knowledge, attitudes, and skills necessary to function successfully as a transfer student, in a career, and as a citizen. To accomplish this goal, we maintain high academic standards and expect students to accept responsibility for assignments, participate actively in class activities and prepare accordingly for all forms of assessment.

CCBC takes seriously our responsibility to maintain high-quality programs and will periodically ask the instructors to participate in various assessment activities to determine whether our students are attaining the knowledge, attitudes, and skills appropriate to various courses and programs. The assessment activities may take many different forms such as surveys, standardized or faculty-developed tests, discussion groups, or portfolio evaluations. We ask that the instructor take these activities seriously so that we can obtain valid data to use for the continuous improvements of CCBC’s courses and programs of study.

Date Revised: 12/08/03