

Common Course Outline
AVMT 241
Instrument Pilot Ground School

The Community College of Baltimore County

Description

AVMT 241 - 4 credits

Instrument Pilot Ground School

Provides all required ground instruction for the Instrument Rating and an endorsement to take the FAA Instrument Pilot knowledge examination upon successful completion of this course; includes flight by reference to instruments, navigation systems, instrument flight rules, weather, approach procedures, safety, CRM, communications, and flight physiology.

Prerequisite: AVMT 141 or private pilot certificate.

Overall Course Objectives

Upon completion of the course the student must be able to:

- A. Understand and apply the aeronautical knowledge required for the Instrument Pilot Rating as specified in Federal Aviation Regulations.
- B. Pass a comprehensive final examination based on the actual FAA Knowledge Examination.
- A. Understand the National Airspace System, enroute structure, and ATC functions.
- B. Understand the proper operation of aircraft instruments and aircraft systems.
- C. Understand terminal approach and departure procedures.
- D. Understand proper pilot-controller communications
- E. Demonstrate a thorough knowledge of aviation weather.
- F. Understand applicable FAA regulations.
- C. Apply the principles of CRM, flight physiology, and emergency procedures.

Major Topics

- A. Instrument systems
- B. Flight by reference to instruments
- C. Instrument flight rules
- D. The National Airspace System
- E. Navigation equipment and associated systems
- F. Meteorology
- G. Communications
- H. Flight Physiology
- I. FAA Regulations
- J. Aeronautical decision making and CRM
- K. Flight safety

Course Requirements

- A. Mid-term and/or periodic examination
- B. Term paper and/or projects
- C. Comprehensive final examination
- D. Attendance and participation