

Common Course Outline
AVMT 141
Private Pilot Ground School

The Community College of Baltimore County

Description

AVMT 141 - 3 credits

Private Pilot Ground School

Provides all required ground instruction for the Private Pilot Certificate, and upon successful completion of this course, students will receive an endorsement to take the FAA Private Pilot knowledge examination; discusses aerodynamics, aircraft systems, aircraft control and operation, communications, airspace, navigation, weight and balance, meteorology, FAA regulations, Crew Resource Management, and aircraft performance.

Overall Course Objectives

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

- A. Understand and apply the aeronautical knowledge required for the Private Pilot Certificate as specified in Federal Aviation Regulations.
- B. Pass a comprehensive final examination based on the actual FAA Knowledge Examination.
- C. Understand the theory of aerodynamics, stability, and aircraft control.
- D. Understand the proper operation of aircraft powerplants and aircraft systems.
- E. Identify classes of airspace and associated weather minimums.
- F. Understand the procedures for calculating weight and balance and aircraft performance.
- G. Understand proper pilot-controller communications
- H. Demonstrate a thorough knowledge of aviation weather.
- I. Understand applicable FAA regulations.
- J. Apply the principles of CRM, flight physiology, and emergency procedures.

Major Topics

- A. Aerodynamics
- B. Flight theory
- C. Aircraft systems
- D. Powerplants
- E. Aircraft control and operation
- F. Safety
- G. Communications
- H. Airspace
- I. Navigation
- J. Aircraft loading and weight & balance
- K. Meteorology
- L. FAA regulations
- M. Flight physiology
- N. Crew Resource Management (CRM)
- O. Aircraft performance.

Course Requirements

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