

Common Course Outline

AVMT 141

Private Pilot Ground School

3 Credits

Community College of Baltimore County

Description

AVMT 141 – Private Pilot Ground School provides all required ground instruction for the Private Pilot Certificate. Upon successful completion of this course, students will receive an endorsement to take the Federal Aviation Administration (FAA) Private Pilot knowledge examination. Topics include aerodynamics, aircraft systems, aircraft control and operation, communications, airspace, navigation, weight and balance, meteorology, FAA regulations, Crew Resource Management (CRM) and aircraft performance.

3 Credits

Corequisites: ACLT 052 and MATH 082

Overall Course Objectives

Upon completion of this course students will be able to:

1. demonstrate flight proficiency required for the FAA Private Pilot Certificate;
2. demonstrate proper preflight planning and procedures;
3. explain basic aerodynamics and the principles of flight;
4. describe the operation and function of aircraft systems;
5. understand the dynamics of airport operations, including takeoffs, landings, and go-around procedures;
6. identify meteorology factors and critical weather situations;
7. demonstrate the proper use of aircraft navigation equipment;
8. demonstrate correct communications procedures;
9. explain the fundamentals of safe and efficient operation of aircraft; and
10. recognize the importance of good aeronautical decision making and sound judgment.

Major Topics

- I. Preflight procedures
- II. Airport operations
- III. Takeoffs, landings, go-arounds
- IV. Performance and ground reference maneuvers
- V. Navigation
- VI. Slow flight and stalls
- VII. Basic instrument maneuvers
- VIII. Safety and emergency procedures
- IX. Night flying operations
- X. Postflight procedures

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include four (4) in-class examinations and two (2) practical evaluations.

Writing: The individual faculty member will determine specific writing assignments such as special topic papers, current events reports, article or textbook summaries, research analysis papers, and personal journals.

Students are required to utilize appropriate academic resources.

Other Course Information

This course is a degree requirement or substituted course in all Associate of Applied Science aviation degree programs.

This course is taught in a classroom and simulator environment.