

AVMT 143

VFR Flight Operations

2 Credits (2 lecture hours and 1 lab hour)

Community College of Baltimore County Common Course Outline

Description

AVMT 143 – VFR Flight Operations: provides an introduction to Visual Flight Rules (VFR) flying operations for non-pilot students. Instruction includes preflight procedures, basic maneuvers, airport operations, cross country navigation, communications, flight by reference to instruments, emergency procedures, night-flying operations, safety, and post-flight procedures. This course is designed to be taken concurrently with AVMT 131. This course has additional lab fees.

Co-requisites: AVMT 131

Overall Course Objectives

Upon completion of this course, students will be able to:

1. operate a single engine aircraft in climbs, descents, turns, and straight and level flight;
2. demonstrate the operation of basic aircraft systems;
3. identify elements of Visual Flight Rules and Federal Aviation Regulations;
4. recognize the aerodynamic forces experienced in slow flight and stalls;
5. demonstrate night flying procedures;
6. apply proper airport traffic pattern procedures and safety awareness on the airport surface;
7. operate a single engine aircraft by reference to instruments;
8. demonstrate proper engine-out and system malfunction procedures;
9. perform cross country flight operations employing radio navigation procedures; and
10. apply proper pilot-controller communications and phraseology.

Major Topics

- I. Operation and control of single engine aircraft
- II. Aircraft systems
- III. Visual Flight Rules and Federal Aviation Regulations appropriate to aircraft flight operations
- IV. Aerodynamics of slow flight and stalls
- V. Night-flying operations
- VI. Airport signage, surface operations, and traffic pattern procedures
- VII. Cross country flight operations and radio navigation
- VIII. Flight by reference to instruments
- IX. Emergency procedures
- X. Pilot-controller communications and phraseology

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

For more information, see your professor's syllabus.

Course Requirements

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

- 2 practical examinations
- a comprehensive final exam
- 2 writing assignments, such as flight plans, special topic papers, and research or case study analysis papers

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