

AVMT 243

IFR Flight Operations

1 Credit (1 lecture hour and 2 lab hours)

Community College of Baltimore County Common Course Outline

Description

AVMT 243 – IFR Flight Operations: provides an introduction to Instrument Flight Rules (IFR) flying operations for non-pilot students. Instruction includes flight by reference to instruments, radio navigation, Air Traffic Control (ATC) communications, weather avoidance, flight planning, and instrument approach procedures. This course is designed to be taken concurrently with AVMT 231. This course has additional lab fees.

Pre-requisites: AVMT 131

Co-requisites: AVMT 231

Overall Course Objectives

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

1. control a single engine aircraft solely by reference to instruments;
2. explain the operation of aircraft instrument systems;
3. identify elements of Instrument Flight Rules and applicable Federal Aviation Regulations;
4. contrast the four basic elements of an instrument approach procedure;
5. discuss en route instrument flight procedures;
6. perform basic IFR cross country flight operations employing radio navigation procedures;
7. apply proper terminal arrival and departure procedures;
8. identify system malfunctions and apply proper troubleshooting procedures;
9. demonstrate safety awareness and risk management; and
10. apply proper pilot-controller communications and phraseology in IFR flight operations.

Major Topics

- I. Operation and control of single engine aircraft by reference to instruments
- II. Aircraft systems, function, and operation
- III. Instrument Flight Rules and Federal Aviation Regulations
- IV. Instrument approach procedures
- V. Terminal arrival and departure procedures
- VI. Airport signage, surface operations, and traffic pattern procedures
- VII. IFR cross country flight operations and radio navigation
- VIII. Flight by reference to instruments and unusual attitude recovery
- IX. Emergency procedures, safety awareness, and aeronautical decision-making
- 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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