

**Common Course Outline**  
**AVMT 242**  
**Instrument Pilot Rating - Airplane**  
**3 Credits**

**The Community College of Baltimore County**

**Description**

**AVMT 242 - 3 credits – Instrument Pilot Rating - Airplane** provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Instrument Rating, Airplane category. Topics include preflight preparation, air traffic control clearances and communications, flight by reference to instruments, navigation systems, instrument approach procedures, emergency operations, safety, and postflight procedures. This course has additional lab fees.

**3 credits: 3 lecture hours per week; approximately 45 hours at a flight training center**  
**Prerequisites: AVMT 142, AVMT 241 or concurrent, or with Aviation Program Coordinator approval.**

**Overall Course Objectives**

Upon completion of this course students will be able to:

1. demonstrate flight proficiency required for the FAA Instrument Pilot Rating;
2. describe proper preflight planning and procedures for flight in instrument conditions;
3. explain the function and operation of aircraft flight instruments;
4. demonstrate flight by reference to instruments;
5. demonstrate the proper use of aircraft navigation equipment;
6. explain proper enroute procedures;
7. explain airport approach procedures;
8. demonstrate correct pilot-controller communications;
9. identify meteorology factors and critical weather situations; and
10. recognize the importance of good aeronautical decision making and sound judgment.

**Major Topics**

- I. Preflight planning
- II. Operation and function of flight instruments
- III. Flight by reference to instruments
- IV. Navigation systems
- V. Air traffic control clearances and procedures
- VI. Enroute navigation
- VII. Instrument approach procedures
- VIII. Meteorology

- IX. Safety and emergency procedures
- X. Postflight procedures

### **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include:

- Minimum of 4 in-class examinations and,
- Minimum of 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 designed to be used as a degree requirement or substituted course in the Aviation Management, Associate of Applied Science degree.

This course is taught in a classroom, simulator and flight environment.

Date revised: 10/6/2014