

**Common Course Outline**  
**AVMT 226**  
**Air Traffic Control Operations I**  
**3 Semester Hours**

**The Community College of Baltimore County**

**Description**

**AVMT 226 – 3 Credits – Air Traffic Control Operations I** presents a comprehensive analysis of Air Traffic Control (ATC) regulatory flight publications including manuals, charts, advisory circulars and procedures. Topics include Federal Aviation Administration (FAA) regulations, Aeronautical Information Manual, Letters of Agreement, Terminal Procedures (TERPS) publications and applicable FAA Orders. Aircraft Recognition and Performance will also be studied and applied. These lessons will be correlated and reinforced with simulation exercises where students will be challenged to use proper pilot-controller phraseology and decision making skills.  
**Co-requisite: AVMT 221.**

**Overall Course Objectives**

Upon completion of this course the student will be able to:

1. explain the relationship and function of air traffic control facilities;
2. demonstrate the use of air traffic control equipment and operation;
3. identify elements of the Aeronautical Information Manual and Federal Aviation Regulations;
4. recognize the elements of Air Traffic Control Order 7110.65;
5. explain the function of terminal and enroute procedures;
6. perform accurate aircraft recognition and explain the flight parameters of each aircraft type;
7. explain the elements of basic air traffic control radar interpretation;
8. demonstrate fundamental non-radar procedures;
9. perform basic air traffic controller duties in low density traffic scenarios; and
10. apply proper pilot-controller communications and phraseology.

**Major Topics**

- I. Relationship and function of air traffic control facilities
- II. Air traffic control equipment and operating parameters
- III. Publications and regulations applicable to air traffic control
- IV. Air Traffic Order 7110.65
- V. Terminal and enroute procedures
- VI. Aircraft recognition
- VII. Basic radar interpretation
- VIII. Non-radar procedures
- IX. Air traffic controller duties
- X. Pilot-controller communications and phraseology

## **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include two (2) in-class written examinations and two (2) practical tower and two (2) radar simulator 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.

## **Other Course Information**

This course is a core course in the Aviation Management Associate of Applied Science degree, Air Traffic Control option.

This course is taught in a classroom and simulator training environment.