

# Common Course Outline

## AVMT 230

### Air Traffic Control Operations V

3 Semester Hours

## The Community College of Baltimore County

### Description

**AVMT 230 – 3 credits – Air Traffic Control Operations V** serves as a capstone course to enable students to demonstrate and review their knowledge and skills in air traffic procedures. This course engages students in a series of individual and group projects with extensive simulator training to enhance their abilities. Students will take a comprehensive exam on air traffic control basics and prepare for employment by working on resumes, interviewing skills and networking.

**Prerequisite: AVMT 227 with a grade of B or better in both courses.**

### Overall Course Objectives

Upon completion of this course, using advanced air traffic control simulation equipment, the student will be able to:

1. correlate the functions of air traffic control facilities as they relate to air traffic safety;
2. apply academic skills to real-world experience;
3. demonstrate the operation of advanced air traffic control systems and equipment;
4. demonstrate the principles of teamwork in an air traffic control facility;
5. demonstrate accurate aircraft recognition and describe the performance of each aircraft type;
6. perform radar controller duties in concentrated radar and non-radar scenarios;
7. perform air traffic controller duties in high density terminal and airport traffic scenarios;
8. identify the elements of a professional air traffic controller;
9. propose solutions to problems existing in the national airspace system; and
10. develop a network of professional contacts in the aviation industry.

### 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. The structure of the Federal Aviation Administration and Air Traffic Control functions
- V. Air traffic basics
- VI. Abnormal procedures and system malfunctions
- VII. Aircraft recognition and performance
- VIII. The flow of air traffic through the National Airspace System
- IX. Teamwork and risk management
- X. Air traffic controller duties and professionalism

## **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include two (2) in-class examinations, an individual and collaborative group project, and three (3) practical advanced air traffic 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.