Common Course Outline
AVMT 230
Air Traffic Control Operations V
3 Semester Hours

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.

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