

AVMT 227

Air Traffic Control Operations II

3 Credits

Community College of Baltimore County Common Course Outline

Description

AVMT 227 – Air Traffic Control Operations II: provides an advanced study of air traffic control (ATC) tower operations, equipment, policies, and procedures. Students learn proper teamwork, decision making, and crew resource management (CRM) skills while applying their knowledge of terminal operations through ATC tower simulator exercises.

Pre-requisites: AVMT 226

Co-requisites: AVMT 231

Overall Course Objectives

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

1. describe the relationship and integration of air traffic control facilities;
2. demonstrate the operation of air traffic control tower equipment;
3. interpret key components of the Federal Aviation Regulations applicable to terminal control;
4. employ proper airport procedures and runway separation standards;
5. demonstrate proper strip marking techniques and handling of flight progress strips;
6. employ teamwork and proper tower cab coordination;
7. explain the importance of positive control and good situational awareness;
8. demonstrate proper response to emergency procedures applicable to tower operations;
9. compare various air traffic controller duties in simulated airport scenarios; and
10. evaluate proper pilot-controller communications and phraseology in the terminal environment.

Major Topics

- I. Relationship and function of air traffic control facilities
- II. Air traffic control equipment and standard operating procedures
- III. Publications and regulations applicable to air traffic control
- IV. Ground control operations and local control procedures
- V. Flight data position responsibilities
- VI. Aircraft category recognition and runway separation standards
- VII. Visual Flight Rules and Instrument Flight Rules terminal operations
- VIII. Teamwork and risk management
- IX. Air traffic control tower separation and sequencing procedures
- X. Pilot-controller communications and phraseology

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- Three written examinations
- Three individual practical air traffic control tower simulator evaluations
- One group practical air traffic control tower simulator evaluation

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

This course is a required course in the Aviation Technology, Air Traffic Control Associate of Applied Science degree.

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

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