

Common Course Outline
AVMT 226
Air Traffic Control Operations

The Community College of Baltimore County

Description

AVMT 226 - 3 credits

Air Traffic Control Operations

Explores FAA Air Traffic Control (ATC) Procedures, operational policies, regulations, radar interpretation, ATC systems knowledge, emergency procedures, meteorology, communications and proper pilot-controller phraseology; begins preparation for the FAA ATC entrance examination.

Prerequisite: AVMT 101 and AVMT 141

Overall Course Objectives

Upon completion of the course the student must be able to:

- A. Demonstrate knowledge of ATC operational policies as outlined in FAA regulations.
- B. Understand regulations governing the control of aircraft.
- C. Understand radar and IFF theory.
- D. Understand airborne instrument navigation systems.
- E. Identify radar equipment and other support systems currently being used by ATC facilities.
- F. Demonstrate proper pilot-controller communications and phraseology.
- G. Interpret weather reports provided to ATC facilities.
- H. Given a simple computer generated ATC scenario, successfully control these aircraft.

Major Topics

- A. ATC Operational regulations, procedures, guidelines, and policies
- B. Radar and IFF theory
- C. Airborne instrument navigation systems
- D. ATC radar equipment and associated systems currently employed.
- E. Pilot-controller communications and phraseology
- F. Weather interpretation
- G. Government agencies regulating ATC operations.
- H. ATC direction and control of aircraft
- I. ATC facilities tour at BWI.

Course Requirements

- A. Mid-term and/or periodic examination
- B. ATC computer simulation scenarios
- C. Comprehensive final examination
- D. Attendance and participation