

Common Course Outline  
AVMT 221  
The Air Traffic Control System

The Community College of Baltimore County

Description

AVMT 221 - 3 Credits

**The Air Traffic Control System**

Provides an analysis of Air Traffic Control (ATC) functions and studies the history, development, and structure of the National Airspace System; explores navigation aids, ATC radar systems, terminal and en route control, flight service and weather facilities, instrument flight rules, airspace, and FAA regulations.

Prerequisite: AVMT 101 and AVMT 141

Overall Course Objectives

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

- A. Understand the history and development of the National Airspace System (NAS).
- B. Understand the structure of the current NAS.
- C. Understand the purpose and limitations of navigation facilities
- D. Understand the designation of airspace
- E. Know the role of the FAA and other ATC regulators and organizations
- F. Know airport controlling organizations and operating procedures
- G. Know the role of Flight Service Stations and aviation weather services.
- H. Identify elements of VFR and IFR procedures and weather minimums.
- I. Understand the purpose and limitations of radar control facilities.
- J. Understand the future challenges facing the air traffic control system

Major Topics

- A. The development of the NAS.
- B. Importance and requirements of ATC services
- C. Safety concerns
- D. Radar control facilities
- E. Airspace designation
- F. Controlled airspace
- G. Security
- H. IFR and VFR procedures
- I. Navigation facilities
- J. Administration and funding for the NAS
- K. Flight Service Stations, flight planning, and weather dissemination.

Course Requirements

- A. Mid-term and/or periodic examination
- B. Term paper and/or projects
- C. Comprehensive final examination
- D. Attendance and participation