

Common Course Outline  
AVMT 101  
Aviation History & Development

The Community College of Baltimore County

Description

**Aviation History and Development**

Explores the evolution of aviation, focusing on the rapid growth of the aviation industry and its influence on economic, military, and political advancement; discusses developments in aircraft design, aerodynamics, powerplants, government agencies, and the national airspace system..

Overall Course Objectives

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

- A. Identify the evolutionary eras of aviation.
- B. Understand the impact of military, government, and economic factors on the development of aviation.
- C. Understand basic aerodynamics and development of airfoil designs.
- D. Understand the development of airframe shapes and designs.
- E. Understand the evolution of aircraft powerplant technology.
- F. Recognize key people who contributed to the growth of aviation

Major Topics

- A. Man's early attempts at flight
- B. Lighter than air flight
- C. Powered flight
- D. Evolution of the airplane in WW I
- E. The Airmail Service
- F. The Barnstormers
- G. Advancements during the Lindbergh era
- H. Aircraft development in WW II
- I. Jet engine theory
- J. The X programs
- K. Progressive military and civilian development of airframes and the jet engine
- L. Development of the airlines
- M. Supersonic flight
- N. Cold War aviation developments
- O. Stealth Technology
- P. Future advancements in aviation

Course Requirements

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