

AVMT 216

Aviation Safety

3 Credits

Community College of Baltimore County Common Course Outline

Description

AVMT 216 – Aviation Safety: explores the causes of aircraft accidents including an overview of the National Transportation Safety Board (NTSB) accident investigation process, the development of accident prevention programs, airborne and ground-based safety systems, regulations, and safety management systems. Aviation safety planning, safety awareness, and human factors leading to aircraft-related accidents are reviewed.

Pre-requisites: AVMT 101 and AVMT 131 or approval of the aviation program director

Overall Course Objectives

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

1. identify common factors leading to aviation accidents;
2. describe the elements of an effective accident prevention program;
3. contrast physiological and psychological factors related to human performance;
4. analyze aircraft maintenance issues leading to aircraft accidents;
5. identify government regulators involved in aviation safety;
6. explain the NTSB accident investigation process;
7. apply the principles of risk management and aeronautical decision-making to flight operations;
8. contrast the functions of a safety management system;
9. compare airborne and ground-based safety equipment; and
10. analyze accident reports to determine probable causes.

Major Topics

- I. Leading causes of aviation accidents
- II. Accident prevention programs
- III. Human factors in aviation
- IV. Safety procedures related to aircraft maintenance
- V. Government agencies that influence aviation safety
- VI. Accident investigation process performed by the NTSB
- VII. Risk management and aeronautical decision-making
- VIII. Safety management systems
- IX. Airborne and ground-based safety equipment
- X. NTSB accident reports

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

Course Requirements

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

- 2 examinations
- comprehensive final exam
- 2 writing assignments, such as flight plans, special topic papers, current event reports, article or textbook summaries, research or case study analysis papers, and personal journals
- 1 oral presentation

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.

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