

Course number and Title

AVSC 2213 Aviation Safety

Catalog Description

Designed to assist the aviation student in developing an attitude and philosophy for accident prevention. Presentation and analysis of factors and procedures relating to aviation safety, techniques for mishap prevention, human factors, organizational safety procedures and goals, aircraft accident reports, principles of mishap investigation and corrective actions, and current events. Includes student project.

Prerequisite

AVSC 2052 or Instructor permission.

Credit hours/ Contact hours/ Load hours

3/3/3

Target Audience & Transferability

Course is designed for students who already possess a Private Pilot's license, have completed Commercial Lab I, and are pursuing an Associate's Degree in Aviation as a professional pilot. Students who are in the Aviation Management Degree option should have completed Aviation History prior to this class. Will transfer to Henderson State University and most other four-year institutions, which offer a Bachelor's in Aviation Science.

Common Objectives/ Student Outcomes

Students completing this course will be able to:

1. Demonstrate a knowledge of safety regulations and accident data analysis.
2. Develop an understanding of the nature of accidents and human factor causative factors.
3. Have a working knowledge of air traffic control and aircraft system technologies.
4. Demonstrate a knowledge of how the FAA, NTSB, and other industry members interact in accident prevention and investigation.
5. Complete a written project addressing an area of flight safety and present it

to the class.

Required Text

Commercial Aviation Safety (Second Edition), McGraw-Hill, 1997

Optional Text

Topics

- I. The safety regulatory framework & data analysis (Chapters 1 & 2).
- II. Measurements, the nature of accidents, & human factors (Chapters 3-5).
- III. Air Traffic Control and aircraft system technologies (Chapters 6 & 7).
- IV. FAA, flight standards, and industry safety programs (Chapters 8 & 9).
- V. Managing human error & the role of the NTSB (Chapters 10 & 11).

Required Methods of Instruction

Attendance and classroom participation is stressed. Students will research and present a written project on an area of flight safety approved by the instructor.

Required Forms of Assessment

Students grade will be based on review quizzes, attendance, the student project, and the final exam.

Resources

The Aviation Department Resource Center (videos, periodicals, and flight publications). Also Drake Aviation Academy & the NWACC Library have multiple resources