**AVSC/SAFE-2130***Aviation Safety*

  Course Description

**Overview**

Maintaining a high safety standard requires a constant effort. This is even more true for high risk organizations like airports or airlines. This course will introduce you to the human aspect of safety, and review some of the main safety theories. Students will learn to consider multiple perspectives and various aspects of a system in order to better understand their responsibility as part of a system. They will explore how Human Factors, or Ergonomics, examines the relationship/interaction between a person and other elements of a system, and deals with safety related issues at a systemic level within high risk organizations. Students will also discuss prominent theories that seek to understand the nature of accidents, why they occur in spite of our best efforts, and new ideas on how to prevent them. This will focus on aspects of Safety Management Systems and how they are developed, implemented, and managed.

**Description**

Presents an introduction to aviation safety. Covers agencies overseeing safety at the commercial and general aviation levels as well as the applicable regulations they develop and enforce. Explores general aviation and commercial aviation accident statistics and accident causation models. Discusses airline, airport, aircraft, and air traffic control safety issues. Explores the role of the aviation administrator as a safety advocate and responsible party in a variety of settings.

**This course must be successfully completed to fulfill graduation requirements for the Aviation Science degree.**

**This course is part of the Aviation Management, B.S., Professional Pilot, B.S., and Aviation Science, A.A.S. discipline core requirements.**

  Course Outcomes

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

1. Differentiate between the roles of regulatory agencies involved in air safety.
2. Analyze aviation accident statistics.
3. Explain accident causation models.
4. Explain elements of air traffic control, aircraft, airline, and airport safety.

  Prerequisites and Needed Skills

Course Prerequisites

* AVSC 1100
* Web browser compatibility can be found at [Canvas Questions and Answers (Links to an external site.)](https://community.canvaslms.com/docs/DOC-10720-67952720329). Internet browsers such as Google Chrome or Firefox are preferred. Some course elements may be viewed on mobile devices; however, UVU aviation online courses include elements of instruction that may require the use of a computer.

  Materials, Fees and Technology Tools

The text is ***Safety Management Systems in Aviation,* 2nd Edition**. Textbook can be found and purchased at the [UVU Bookstore. (Links to an external site.)](http://bookstore.uvu.edu/SelectTermDept.aspx)

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How This Course Works

**Course Mode: Online**

**Description of how course works:**

Canvas is where course content, grades, and communications will reside for this course.

For this **three (3) credit-hour** course students should expect to spend up to**9+ hours a week** completing course activities.

**Student Responsibilities:**

* *Start class the first week of the term.*
* ***Be accountable by setting aside regular time each week to complete course activities and assignments on time as noted per the due dates****.*
* *Learn how to use Canvas including communication tools (e.g. discussion, Canvas inbox, etc.). If you have technology-related problems contact the*[*Service Desk (Links to an external site.)*](https://www.uvu.edu/servicedesk/)*.*
* *Abide by ethical standards. Your work must be your own.*
* *Contact your instructor as early as possible if an emergency arises. Do NOT wait until the last minute to ask for an extension.*

**Instructor Responsibilities:**

* *Respond to emails within ONE business day. If multiple emails are received regarding the same question or concern, they may be responded to with an announcement to the entire class.*
* *Provide timely, meaningful and constructive feedback on assignments.*
* *Facilitate an effective learning experience.*
* *Refer students to appropriate services for issues that are non-course content specific. For instance, technical issue, writing labs, accessibility services, etc.*
* *Mentor students through the course.*

 Grading and Late Work Statement

**Grading Scale:**

The following grading standards will be used in this class:

| **Grade** | **Percent** |
| --- | --- |
| A | 94-100 |
| A- | 90-93 |
| B+ | 87-89 |
| B | 83-86 |
| B- | 80-82 |
| C+ | 77-79 |
| C | 73-76 |
| C- | 70-72 |
| D+ | 67-69 |
| D | 63-66 |
| D- | 60-62 |
| E | 0-59 |

**Assignment Categories**

| **Activity** | **Points** |
| --- | --- |
| Assignments | 550 |
| Discussions | 100 |
| Quizzes | 120 |
| Exams | 190 |

**Late Work Statement:**

* PLEASE NOTE: All assignments/quizzes must be completed by 11:59 PM MST/MDT on the date listed with the assignment/quiz.

 Assignment and Assessment Descriptions

**Assignments:**

See the assignments listed in Canvas for specific descriptions. Assignments are due on the date indicated. No late assignments will be accepted.

**Discussions:**

Discussions will be opportunities to explore topics together.  Posts to the discussion should add significantly to the conversation and support your point of view.  *Comments that do not add significantly to a discussion will receive****no credit****.* It is okay to disagree in a discussion.  In fact much learning happens when we disagree.  However we need to be respectful and keep our online classroom a safe place to learn.

Due dates for discussions correspond with the initial post date which is usually a **Wednesday**.  Follow up comments are due by Sunday. Follow up posts are expected to be after the due date and are not marked late.  Discussions conclude by the **Sunday** following the due date. After this, posts will be marked late.

**Assessments:**

Reading Reviews are short quizzes that are administered online through Canvas. Their purpose is to assess your understanding of the reading material.

Exams will administered online through Canvas. They are due on the date indicated and no later than 11:59 MST/MDT.

 Course Schedule

Refer to the [**Course Schedule Canvas page**](https://uvu.instructure.com/courses/497337/pages/course-schedule)**.**

 UVU Policies and Resources

[Policies and Success Strategies (Links to an external site.)](https://greengold.uvu.edu/_crs_info_master/success.html)

[Accessibility Services](https://www.uvu.edu/accessibility-services/students/)

* Students who need accommodations because of a disability may contact the UVU Office of Accessibility Services (OAS), located on the Orem Campus in LC 312. To schedule an appointment or to speak with a counselor, call the OAS office at 801-863-8747. Deaf/Hard of Hearing individuals, email nicole.hemmingsen@uvu.edu or text 385-208-2677.

[Campus Resources (Links to an external site.)](https://www.uvu.edu/otl/students/campus_resources.html)

  Technology Support Services

 For 24/7  technical support contact [Instructure's Canvas Support Live Chat  (Links to an external site.)](https://cases.canvaslms.com/liveagentchat?chattype=student&sfid=001A00000085cNxIAI)

(385) 204-4930 (Available 24/7)