**AVSC-2110***Aviation Weather*

  Course Description

Enables the aviation administrator to understand and appreciate the operational and strategic impacts of weather on the aviation industry. Teaches atmospheric composition and structure, climate and synoptic weather, aviation weather reports, forecasts, and weather data sources. Requires students to apply these principles in a decision-making capacity through weather tracking, planning and decision making activities.

  Course Outcomes

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

1. Explain the operational challenges associated with atmospheric stability, moisture characteristics, precipitation, pressure, altitude, and density.
2. Demonstrate knowledge of atmospheric composition and climate.
3. Interpret current and historical aviation weather reports, forecasts and observations affecting aviation operational decision making.
4. Describe how weather conditions affect airplane performance.
5. Explain the conditions likely to result in the formation of the most common aviation weather hazards and appropriate responses to in-flight weather hazards.

  Prerequisites and Needed Skills

**Course Prerequisites**

* None

**Technology Expectations:**

* 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.
* Assignments may require the use of a camera and microphone.

  Materials, Fees and Technology Tools

**Textbook**

The text is **Jeppesen: *Aviation Weather* 4th Edition.**Textbook can be found and purchased at the [UVU Bookstore. (Links to an external site.)](https://bncvirtual.com/uvu.htm)

**Technology Tools**

* Microsoft Office (Word and PowerPoint) is required. UVU provided free access to Microsoft 365 for students. See [UVU Office 365.  (Links to an external site.)](https://ais-linux6.uvu.edu/office365/)
* UVU also provides Google Suite for students:  [UVU Google Drive (Links to an external site.)](https://www.uvu.edu/itservices/catalog/cloud/googledrive.html)
* Presentations require use of a screen recording tool and microphone.
* Internet browsers such as Google Chrome or Firefox are preferred. Web browser compatibility can be found at [Canvas Questions and Answers (Links to an external site.)](https://community.canvaslms.com/docs/DOC-10720-67952720329).

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 | 525 |
| Discussions | 360 |
| Quizzes | 140 |
| Exams | 200 |
| Presentations | 225 |

**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 **Thursday**.  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

See the Course Calendar in Canvas.

 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)

[UVU Academic Tutoring (Links to an external site.)](https://www.uvu.edu/academictutoring/)

  Technology Support Services

 For technical support contact the[UVU Service Desk (Links to an external site.)](https://www.uvu.edu/servicedesk/)

(801) 863-8888