

Syllabus

Utah Valley University

AVSC 2110 | Aviation Weather



Instructor Contact Information

Instructor Information (<https://uvu.instructure.com/courses/606714/pages/instructor-information>)

Contact Instructor via **Canvas Inbox Messaging**. Expect a response by the next business day.

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.

This course is part of the Aviation Science program and must be successfully completed to fulfill graduation requirements for the BS-AVMT - Aviation Management, B.S. program, and the BS-AVPP - Professional Pilot, B.S. program.

Course Outcomes

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

- Explain the operational challenges associated with atmospheric stability, moisture characteristics, precipitation, pressure, altitude and density.
- Demonstrate knowledge of atmospheric composition and climate.
- Interpret current and historical aviation weather reports, forecasts and observations affecting aviation operational decision making.
- Describe how weather conditions affect airplane performance.



- 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

Required materials, fees and technology:

Textbook

- No textbook purchase is required. The textbook (**Aviation Weather Handbook: FAA-H-8083-28** (https://www.faa.gov/sites/faa.gov/files/FAA-H-8083-28_FAA_Web.pdf)) can be found and accessed online on the Federal Aviation Administration website.

Recommended Reading

- **Jeppesen Aviation Weather 4th Edition By Peter F. Lester** (https://www.amazon.com/Jeppesen-Aviation-Weather/dp/0884875946/ref=sr_1_5?crid=1JFAS8X0XNOZ8&keywords=Aviation+Weather&qid=1690861736&srefix=aviation+weather%2Caps%2C199&sr=8-5) This is a link to Amazon but the book can be found at many local flight centers, schools and online.

Technology Tools

- Internet browsers such as Google Chrome or Firefox are preferred. Web browser compatibility can be found at **Canvas Questions and Answers** (<https://community.canvaslms.com/docs/DOC-10720-67952720329>).
- Microsoft Office (Word, PowerPoint, and Excel) is required. UVU students have free access to Microsoft 365. See **UVU Microsoft Office 365**. (<https://www.uvu.edu/software/microsoft-office-365.html>)
- A laptop or desktop computer with a camera and microphone may be required for Kaltura video submission assignments. Instructions for downloading and using Kaltura can be found in the modules where a camera and microphone are necessary. **Computer requirements for Kaltura**



Capture (<https://knowledge.kaltura.com/help/kaltura-capture---prerequisites-and-system-requirements>).

How This Course Works

Course Mode: Online

This is a fully online course. Online learning offers the convenience of continuing your education regardless of your access to the physical classroom. Be aware that online courses at UVU have regular due dates and must be completed within the term you are register.

You are expected to attend class online each week and participate in all activities. Absence from our online class makes it extremely difficult to be a successful student.

Description of how the course works:

For this **three (3) credit-hour** course students should expect to spend up to **9+ hours a week** completing course activities. As a student, you can expect this course to challenge and engage you as a learner. You will be expected to: engage in weekly discussions, complete reading assignments, quizzes, and additional assignments as required, and succeed as a student in this course.

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

Artificial Intelligence (AI) Expectations and Requirements

You may use AI programs e.g. ChatGPT to help generate ideas and brainstorm. However, you should note that the material generated by these programs may be inaccurate, incomplete, or otherwise problematic. For example, AI-generated language programs are known to "hallucinate", i.e. create references to non-existent resources. Beware that use of AI may also stifle your own independent thinking and creativity.

You may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it should be cited like any other reference material (with due consideration for the quality of the reference, which may be poor).

Any plagiarism or other form of cheating will be dealt with severely under relevant UVU Plagiarism policies as described in the [UVU Student Code of Conduct](https://www.uvu.edu/catalog/current/policies-requirements/student-code-of-conduct.html) (<https://www.uvu.edu/catalog/current/policies-requirements/student-code-of-conduct.html>), UVU Policy [541](https://policy.uvu.edu/getDisplayFile/5bedd0ef7b23736d542192e3) (<https://policy.uvu.edu/getDisplayFile/5bedd0ef7b23736d542192e3>).

Grading and Late Work Statement

Grading Scale:



The following grading standards will be used in this class:

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

Assignment Categories

Activity	Points
Course Assignments	382
Module Assignments	310
Discussions	360
Reading Reviews	140
Exams	300
Team Weather Tracking Assignment	220

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.



Assignments:

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

Copyleaks: Assignments have a plagiarism detector that checks your work's originality. Should your instructor have any concerns about plagiarism they will contact you directly. Please refer to [Copyleaks Ltd's Privacy Statement \(https://copyleaks.com/privacy-policy\)](https://copyleaks.com/privacy-policy) to read how Copyleaks cares about your rights and personal data.

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

Course Schedule


Link to [Course Schedule Canvas page \(https://uvu.instructure.com/courses/606714/pages/course-schedule\)](https://uvu.instructure.com/courses/606714/pages/course-schedule).

Responsibilities

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.). Learn how to use Microsoft Teams to hold video/voice meetings, post chats, and retrieve files. If you have technology-related problems contact the **[Service Desk](https://www.uvu.edu/servicedesk)**  (<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 messages within ONE business day. If multiple messages 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.

Technology Support Services

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


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

UVU Policies and Resources

[Academic Policies & Standards](https://www.uvu.edu/catalog/current/policies-requirements/academic-policies-and-standards.html)  (<https://www.uvu.edu/catalog/current/policies-requirements/academic-policies-and-standards.html>)

[Student Success Resources](https://www.uvu.edu/success/resources.html)  (<https://www.uvu.edu/success/resources.html>)

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

[Policies and Success Strategies](https://www.uvu.edu/otl/students/policiesandprocedures.html)  (<https://www.uvu.edu/otl/students/policiesandprocedures.html>)


[Campus Resources](https://www.uvu.edu/success/resources.html)  (<https://www.uvu.edu/success/resources.html>)

[UVU Academic Tutoring](https://www.uvu.edu/academictutoring)  (<https://www.uvu.edu/academictutoring>)



UVU Aviation Sciences Writing Standards  (<https://www.uvu.edu/aviation/student-resources/writing-standards.php>)

Accommodations/Students with disabilities Statement

Students needing accommodations due to a disability including temporary and pregnancy accommodations may contact the UVU **Accessibility Services**  (<https://www.uvu.edu/accessibility-services/>) at accessibilityservices@uvu.edu or 801-863-8747.


Accessibility Services is located on the Orem Campus in LC 312.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers should contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu


DHH is located on the Orem Campus in LC 312.

Academic Integrity Statement

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their **rights and responsibilities** 

(<https://policy.uvu.edu/getDisplayFile/5bedd0ef7b23736d542192e3>). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in **UVU Policy 541: Student Code of Conduct**  (<https://policy.uvu.edu/getDisplayFile/5bedd0ef7b23736d542192e3>).



Definitions and Examples:

Academic Integrity

Cheating


Plagiarism

Fabrication

We would like to acknowledge the following institutions: Northeastern University, University of Jamestown, Washington University in St. Louis, and UVU's Woodbury School of Business. This statement uses or adapts parts of their academic integrity statements or used them for inspiration.

Religious Accommodation Statement

UVU values and acknowledges a wide range of faiths and religions as part of our student body, and as such provides accommodations for students. Religious belief includes the student's faith or conscience as well as the student's participation in an organized activity conducted under the auspices of the student's religious tradition or religious organization. The accommodations include reasonable student absences from scheduled examinations or academic requirements if they create an undue hardship for sincerely held religious beliefs. For this to occur, the student must provide a written notice to the instructor of the course for which the student seeks said accommodation prior to the event.

The UVU campus has [a place for meditation, prayer, reflection, or other forms of individual religious expression](https://www.uvu.edu/interfaith/reflectioncenter/index.html)  (<https://www.uvu.edu/interfaith/reflectioncenter/index.html>) as is described on their website.

Equity and Title IX Statement

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits.



or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – [TitleIX@uvu.edu \(mailto:TitleIX@uvu.edu\)](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

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Fair Use

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Fair use is a use permitted by copyright statute that might otherwise be infringing.

Fair Use Definition

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