ARIZONA WESTERN COLLEGE
SYLLABUS

AVN 140 AVIATION WEATHER

Credit Hours: 3 Lecture: 3

PREREQUISITE: None

Course Description
Introduces aviation meteorology, atmospheric processes, weather hazards, aviation weather reports and forecasts, and weather-related aeronautical decision-making. Students learn to recognize conditions affecting flight and obtain, interpret, and apply weather information to VFR operations.

1. COURSE GOALS
   1.1 Develop an understanding of atmospheric processes that produce aviation weather.
   1.2 Interpret aviation weather reports, forecasts, advisories, and graphical products.
   1.3 Apply weather knowledge to safe VFR aeronautical decision-making.

2. OUTCOMES
   Upon successful completion, students will be able to:
   2.1. Describe the structure and characteristics of the atmosphere.
   2.2. Explain pressure, temperature, stability, moisture, clouds, winds, air masses, and fronts.
   2.3. Identify conditions associated with thunderstorms, turbulence, icing, fog, windshear, and reduced visibility.
   2.4. Explain density-altitude and weather effects on aircraft operations.
   2.5. Decode and interpret METARs, TAFs, PIREPs, winds and temperatures aloft, and applicable advisories.
   2.6. Interpret graphical aviation weather, radar, and satellite information.
   2.7. Identify appropriate sources for preflight and in-flight weather information.
   2.8. Evaluate weather information and make reasoned VFR go/no-go and diversion decisions.

3. METHODS OF INSTRUCTION
   3.1 Lecture
   3.2 Multi-media Presentations
   3.3 Group Discussions

4. LEARNING ACTIVITIES

4.1 Aviation Weather Product Interpretation Exercises
4.2 Weather Analysis and Briefing Activities
4.3 Scenario-Based Go/No-Go Weather Decisions

5. EVALUATIONS
5.1 Quizzes/Exams
5.2 Assignments
5.3 Participation

6. STUDENT RESPONSIBILITIES
6.1 Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
6.2 If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
6.3 Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through Accessibility Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
6.4 Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
6.5 Texts and Notebooks: Students are required to obtain the class materials for the course.
6.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester. Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid. For online

classes, student attendance in an online class is defined as the following (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computer-assisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course