

Course number and Title

AVSC 1073/Meteorology

Catalog Description:

Course explores weather systems, weather reporting, weather safety, and severe weather avoidance. Designed to meet weather knowledge requirements for Private, Instrument, and Commercial Licenses.

Prerequisite:

Student must have completed AVSC 1171 or have consent of the instructor.

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, and are pursuing an Associate's Degree in Aviation as a professional pilot. Course will be specific in nature allowing instruction on the effect of various weather phenomena on aircraft flight. 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 weather related factors, which can have a critical impact on aircraft performance.
2. Understand and apply the principles of thorough, pre-flight weather planning.
3. Be conversant regarding the varieties of existing technology that can aid a pilot both on the ground and in the air.
4. Make sound decisions involving weather and human induced pressures (go, no-go) involving Visual and Instrument Flight Rules.

Required Text(s):

Instrument Commercial Manual, Jeppesen Sanderson, Inc., 1998

Optional Text(s): Not applicable

Topics:

- I. Air-Mass characteristics and hazards (Chap. 9, Sections A and B).
- II. Printed and graphic weather reports and forecasts (Chap. 9, Sections C-E).
- III. IFR flight considerations (Chap. 10, Sections A-C).

Required Methods of Instruction:

Students will complete a team role-playing exercise on weather pre-flight planning and field trips may be scheduled.

Required Forms of Assessment:

Student participation in role playing exercise and daily classes will be required.

Resources:

The Aviation Department Resource Center (videos, periodicals, and flight publications).