

NorthWest Arkansas Community College
Division of Science & Mathematics

PHSC 1073 Survey of Meteorology

Catalogue Description: A course in atmospheric science that examines thermal patterns, atmospheric moisture, air pressure, global patterns, frontal and air mass properties, weather extremes, and climatic challenges. Students will become aware of and work with surface weather observations, Internet based resources will be stressed.

Prerequisite: None

Credit hours/ Contact hours/ Load hours: 3/3/3

Target Audience/Transferability: This non laboratory science course is for students interested in the topic. This is an elective course which is often transferrable as an elective. It may be counted as part of requirements for certain technical programs (aviation for example). Always check with the transfer institution to confirm how this course will be accepted.

Student Outcomes: Students completing this course will:

- Demonstrate knowledge of general weather systems and measures used to monitor weather.
- Use weather data to make simple predictions of future weather conditions.
- Describe the impact of human activity on weather patterns
- Match weather conditions and potential for damage to various severe weather phenomena.

Topics:

- Atmosphere
- Solar Warming and temperature measures
- Humidity
- Condensation and Precipitation
- Air Pressure and Wind
- Circulation Patterns
- Air Masses and Fronts
- Weather Forecasting
- Thunderstorms and Tornados
- Hurricanes
- Air Pollution
- Global Climate
- Climate Change
- Atmospheric Optics

Forms of Assessment: None