Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

AVT 1119 - Aviation Meteorology

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 2.0 **Lecture Hrs:** 2.0

Date Revised: January 2014

Course Description:

Prepares students with the knowledge necessary to comprehend the fundamentals of meteorology, analyze weather factors, hazards and in-flight weather conditions and weather conditions as they relate to aircraft and flight performance using aviation meteorology charts and internet weather resources.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Information Literacy Competency

Course Outcomes:

Atmospheric Circulations
Demonstrate a basic knowledge of atmospheric circulation, air masses, fronts, and thunderstorm structure and behavior and the threat it poses to aircraft operations.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

80% correct response on exam

Weather Hazards
Recognize the hazards of wind shear, turbulence and icing conditions to aircraft operations and flight performance.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

80% correct response on exam

Sources of Weather Information
Identify, comprehend and analyze sources of weather information regarding in-flight weather conditions using aviation meteorology charts and internet weather resources.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

80% correct response on exam

Meteorology Fundamentals
Comprehend the fundamentals of meteorology and proper technical vocabulary of meteorological terms.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

80% correct response on exam

Outline:

Fundamentals of meteorology

Meteorological technical terms

Atmospheric circulations
Air masses, fronts and thunderstorms
Wind shear, turbulence and icing conditions
Sources of weather information
Aviation charts and internet resources