

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
- ▣ Values/Citizenship/Community
- ▣ Information Literacy

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