

Master Syllabus

AVT 1106 - Airframe Safety Systems

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 2.0

Lecture Hrs: 1.0 **Lab Hrs:** 2.0

Date Revised: October 2012

Course Description:

Aircraft safety systems will cover the following: chemical and electric/pneumatic ice and rain protection systems, fire warning and extinguishing systems, landing gear and throttle safety warning systems, aural warning systems and troubleshooting and repair of wiring for these systems. One classroom, two lab hours per week.

General Education Outcomes:

- ▣ Oral Communication Competency
- ▣ Written Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency

Course Outcomes:

Ice and rain protection

Demonstrate knowledge of different electrical, pneumatic, and chemical ice and rain protection systems for different category aircraft.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Fire warning and extinguishing systems

Demonstrate an understanding of fire warning systems and extinguishing systems including different chemicals used, and troubleshooting of these systems including wiring and plumbing.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Landing gear warning systems

Demonstrate the ability to operate, inspect, troubleshoot, repair, and service landing gear/throttle warning systems critical to flight safety.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Outline:

Ice and rain protection
Fire warning and extinguishing systems
Landing gear warning systems
Aural warning systems