

## Master Syllabus

### AVT 1214 - Cabin Atmospheric Control

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 2.0

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

**Date Revised:** February 2014

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### Course Description:

Inspection, operation, troubleshooting, repair and service of the following items: heating, cooling, air conditioning, pressurization, air cycle machines and gaseous oxygen 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:

#### Pressurization systems

Demonstrate a basic knowledge of the requirements of different types of pressurization systems, and their repair, operation, removal and installation, corrosion control, and inspection methods of those systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exam

#### Air conditioning systems

Demonstrate knowledge of air conditioning systems, their operation, removal and installation, inspection for corrosion, troubleshooting, and repair.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exam

#### Heating systems

Demonstrate knowledge of different types of heating systems, and an understanding of federal regulations governing aircraft heating systems and their maintenance, removal, installation, and repair.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exam

### Outline:

Oxygen system safety requirements  
Tools for cleaning oxygen systems  
Oxygen generators  
Pressurization systems  
Air conditioning systems  
Heating systems