

## Master Syllabus

### AVT 1213 - Corrosion

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 3.0

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

**Date Revised:** October 2013

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### Course Description:

Causes of corrosion, the chemical process, types of corrosion, locations susceptible to corrosion, detecting corrosion, removing and treating corrosion, cleaning of the interior and exterior of the airplane, polishing windshields and windows and paint removal and protection of bare surfaces. Two 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:

#### Identification and treatment

Demonstrate indepth knowledge of types of corrosion, and the cleaning and treatment or removal of corrosion-affected parts.

**Assessment Method:** Locally developed exams

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

#### Cleaning processes

Demonstrate the ability to inspect for different types of corrosion, and to clean metal to prevent corrosion, clean or remove corrosion, and prepare metal.

**Assessment Method:** Locally developed exams

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

#### Damage repair process

Demonstrate knowledge of different repair processes for corrosion control on different types of metal such as sheet metal, stainless steel, and steel.

**Assessment Method:** Locally developed exams

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

### Outline:

Corrosion identification and treatment  
Correct cleaning processes  
Corrosion damage repair process  
Aircraft exterior types - metal, plastic, and composite  
Aircraft windshield and passenger windows