

## Master Syllabus

### AVT 1113 - Drawings for Aviation

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 3.0

**Lecture Hrs:** 2.0 **Lab Hrs:** 3.0

**Date Revised:** October 2013

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#### Course Description:

Knowledge and skill development in using and making aircraft drawings, graphs and wiring diagrams; drawing symbols, electrical schematics, drawing repairs and alterations to industry and Federal Aviation Administration (FAA) standards; aviation performance charts and graphs, aviation gas laws, force and motion, work and power, energy and weight, mass and matter that affect aircraft performance. Two classroom, three 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:

##### Wiring diagrams

Demonstrate in-depth knowledge of drawing techniques for industry-standard wiring diagrams using common symbols.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 70% or higher on exams

##### Industry standard drawings

Demonstrate knowledge to make drawings for aircraft, including charts, schematics, wiring diagrams, graphs, and simple sketches for repairs, using industry-standard symbols.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher on exams

##### Performance charts and graphs

Demonstrate an in-depth knowledge of, and the ability to, correctly interpret various aviation performance charts and graphs.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher on exams

#### Outline:

Make industry standard drawings with correct symbols  
Make wiring diagrams to industry standards  
Interpret aviation performance charts and graphs  
Gas laws for aviation  
Mass, weight, and matter that affect aircraft