

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

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