

Master Syllabus

AVT 1133 - Instruments/Communications

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 3.0

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

Date Revised: October 2012

Course Description:

Inspection, removal and installation of flight instruments and controls to include gyroscopic and magnetic instruments, pitot-static lines, wiring and legal repairs by mechanics. Communications equipment operation, inspection, removal and installation of radios, antennas, coax cables, wave guides and next generation of combination instrument/communication equipment to include GPS/satellite communication. 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:

Operation of communication equipment

Demonstrate a knowledge of federal and international regulations governing aircraft communication equipment operation and maintenance, and documentation requirements for various communication and navigation equipment removal, installation, and adjustment.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Inspection of flight instruments and displays

Demonstrate knowledge of the operation of aircraft flight instruments and displays to include removal, repair, installation, and post-maintenance airworthiness checks.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

GPS/satellite aircraft equipment

Demonstrate basic knowledge of the operation, removal and replacement, and repair of GPS and satellite equipment installed in aircraft for navigation and communication.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Outline:

Operation of communication equipment
Inspection of flight instruments and displays
Legal repairs on instruments/communication aircraft equipment
GPS/satellite aircraft equipment