

## 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

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#### 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