

## Master Syllabus

### AVT 1246 - Air Traffic Control Communications

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 1.0

**Lecture Hrs:** 1.0

**Date Revised:** October 2012

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#### Course Description:

Overview of the history of air traffic control, air traffic control tower procedures, radar systems, radar separation, radio communications and techniques, flight plan clearances, traffic management and emergency procedures and priority handling.

#### General Education Outcomes:

- ❑ Critical Thinking/Problem Solving Competency
- ❑ Values/Citizenship/Community Competency
- ❑ Oral Communication Competency

#### Course Outcomes:

##### History and Responsibilities

Comprehend and describe the history of air traffic control and the importance of the air traffic control system.

**Assessment Method:** Locally developed exams

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

##### Radar Services and Separation

Comprehend the use of air route and airport surveillance radar, secondary radar, radar separation requirements and the limitations of these systems.

**Assessment Method:** Locally developed exams

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

##### Control Tower Procedures and Responsibilities

Comprehend and describe the various types of job categories, requirements for issuing taxi, takeoff and landing clearances.

**Assessment Method:** Locally developed exams

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

##### Emergency Procedures

Comprehend and describe the various emergency procedures in the Airmen's Information Manual and how these procedures are used in air traffic control priority handling situations.

**Assessment Method:** Locally developed exams

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

#### Outline:

Radio Communications and Techniques

Air Traffic Services

Air Traffic Control Tower Procedures

Radar Systems

Flight Plans and Clearances

Emergency Procedures and Priority Handling

Operational Evolution Plan (OEP), Next Generation ATC (NextGen) and Automated Dependent Surveillance Broadcast (ADS-B)