

## Master Syllabus

### AVT 1254 - Flight Simulator Instruction

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 1.0

**Lecture Hrs:** 1.0

**Prerequisite(s):** AVT 1170

**Other Prerequisite(s):** AND Approval of Department , AND Other \$350 Lab Fee

**Date Revised:** October 2013

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### Course Description:

Prepares students with the knowledge and practice necessary to successfully control an aircraft solely by reference to flight instruments. Topics include full and partial panel reference, accuracy and proficiency in flying holding patterns and instrument approach procedures and recovery from unusual attitudes and spatial disorientation scenarios.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency

### Course Outcomes:

#### Situational Awareness

Accurately demonstrate recovery from unusual attitudes and spatial disorientation scenarios.

**Assessment Method:** Behavioral observations

**Performance Criteria:** Mastery of competency at 100%.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 80% correct responses on exams.

**Assessment Method:** Simulations

**Performance Criteria:** 100% Proficiency in maneuvers in the GAT-II

#### Basic Attitude Instrument Flight

Interpret aircraft instruments and apply principles of basic attitude instrument flight, both full and partial panel.

**Assessment Method:** Behavioral observations

**Performance Criteria:** Mastery of competency at 100%.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 80% correct responses on exams.

**Assessment Method:** Simulations

**Performance Criteria:** 100% Proficiency in maneuvers in the GAT -II

#### Instrument Flight Procedures

Interpret and accurately demonstrate flying instrument approach procedures and holding pattern entries.

**Assessment Method:** Behavioral observations

**Performance Criteria:** Mastery of competency at 100%.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 80% correct responses on exams.

**Assessment Method:** Simulations

**Performance Criteria:** 100% Proficiency in maneuvers in the GAT-II

### Outline:

Aircraft Attitude Control  
Full and Partial Panel Aircraft Control  
Holding Patterns  
Instrument Approach Procedures  
Unusual Attitudes  
Spatial Disorientation