

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

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
- Values/Citizenship/Community

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