

## Master Syllabus

### AVT 2269 - Flight Instructor Flight Lab - Airplane Single Engine

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 1.0

**Lab Hrs:** 2.0

**Prerequisite(s):** AVT 1110AND AVT 1170AND AVT 2250AND AVT 2258

**Other Prerequisite(s):** AND Approval of Department

**Date Revised:** January 2016

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#### Course Description:

Prepares students with the aeronautical knowledge, skill and experience necessary to meet the requirements for a Federal Aviation Administration (FAA) Certified Flight Instructor Pilot Certificate with an Airplane Category and Single Engine Land Class Rating. Topics include the fundamentals of instruction as it pertains to the training aircraft, flight maneuvers, maximum performance takeoff and landing procedures, attitude control by instrument reference, solo flight, night flying, cross-country operations and navigation procedures. Contact the Department for the current lab fee. Two lab hours per week.

#### General Education Outcomes:

- Oral Communication Competency
- Written Communication Competency
- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Information Literacy Competency

#### Course Outcomes:

##### Maximum Performance Takeoff and Landing Procedures

Demonstrate, evaluate, and apply the fundamentals of instruction during maximum performance takeoff and landing procedures, maintaining specific flight attitudes and ground tracks associated with an aircraft in the flight training environment to Commercial Pilot standards.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

(FAA) 70% or more correct responses on written exams

**Assessment Method:** Oral examination

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Simulations

**Performance Criteria:**

Mastery of competency at 100%

##### Commercial Pilot Flight Maneuvers

Demonstrate, evaluate and apply the fundamentals of instruction in basic flight maneuvers; maintaining specific flight attitudes and ground tracks associated with an aircraft in the flight training environment to Commercial Pilot standards.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

(FAA) 70% or more correct responses on written exams

**Assessment Method:** Oral examination

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Simulations

**Performance Criteria:**

Mastery of competency at 100%

##### Cross Country and Night Flight

Demonstrate, evaluate and apply the fundamentals of instruction during cross country and night flight; maintaining specific flight attitudes and ground tracks associated with an aircraft in the flight training environment to Commercial Pilot standards.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

(FAA) 70% or more correct responses on written exams

**Assessment Method:** Oral examination  
**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Simulations  
**Performance Criteria:**

Mastery of competency at 100%

**Private Pilot Flight Maneuvers**

Demonstrate, evaluate, and apply the fundamentals of instruction in basic flight maneuvers, maintaining specific flight attitudes and ground tracks associated with an aircraft in the flight training environment to Private Pilot standards.

**Assessment Method:** Behavioral observations  
**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams  
**Performance Criteria:**

(FAA) 70% or more correct responses on written exams

**Assessment Method:** Oral examination  
**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Simulations  
**Performance Criteria:**

Mastery of competency at 100%

**Outline:**

- Teaching techniques used in pilot training
- Private pilot flight maneuvers
- Commercial pilot maneuvers
- Cross country operations
- Maximum performance takeoff and landing procedures
- Night flying
- Navigation procedures