

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

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