

Master Syllabus

AVT 2263 - Commercial Pilot Flight Lab - Airplane Single Engine

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 3.0

Lab Hrs: 9.0

Prerequisite(s): AVT 1110 AND AVT 1170

Other Prerequisite(s): AND Approval of Department

Date Revised: January 2016

Course Description:

Prepares students with the aeronautical knowledge, skills and experience necessary to meet the requirements for a Federal Aviation Administration (FAA) Commercial Pilot Certificate with an Airplane Category and Single Engine Land Class Rating. Topics include familiarization with the complex training aircraft, commercial flight maneuvers, simulated emergency procedures, maximum performance takeoff and landing procedures and extended cross-country flight operations. Contact the Department for the current lab fee. Nine lab hours per week.

General Education Outcomes:

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

Course Outcomes:

Advanced Flight Maneuvers

Demonstrate advanced flight maneuvers, maintain specific flight attitudes and ground tracks associated with an aircraft in the flight environment.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

70% correct responses on exams

Complex Aircraft Transition

Demonstrate correct use of complex aircraft systems including power settings, constant speed propeller settings, retractable landing gear, emergency operations and aircraft performance.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

70% correct responses on exams

Extended Cross Country Flight

Demonstrate the accurate planning of both day and night extended cross country flights in a complex aircraft. Safely conduct extended cross country flights using pilotage, dead reckoning and navigation systems.

Assessment Method: Behavioral observations
Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams
Performance Criteria:

70% correct responses on exams

Outline:

Advanced Flight Maneuvers
Complex Aircraft Transition
Maximum Performance
Takeoff and Landing Procedures
Simulated Emergency Procedures
Solo Flying
Night Flying
Cross Country Operations