APT A124: ADVANCED COMMERCIAL PILOT FLIGHT LAB

Item	Value
Curriculum Committee Approval Date	12/08/2021
Top Code	302020 - Piloting
Units	1 Total Units
Hours	54 Total Hours (Lab Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Pass/No Pass (B)

Course Description

The student will receive training in the maneuvers and procedures necessary to meet the standards contained in the FAA Commercial Pilot Practical Test Standards. Additionally, the student will receive training in safety awareness, crew resource management, and aeronautical decision-making. At the successful completion of this course, the student will have gained the aeronautical experience necessary to attain the addition of an Commercial Rating for the Private Pilot Certificate. All training is conducted in accordance with CFR 14, Federal Aviation Regulation Part 61 and under a syllabus of instruction approved under CFR 14, Federal Aviation Regulation Part 141. PREREQUISITE: Private Pilot Certificate (will be verified by Instructor on first class meeting). Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Performs within the tolerances for each flight maneuver required by in the Federal Aviation Administration (FAA) Practical Test Standards for Commercial Pilot Airplane.

Course Objectives

- 1. Demonstrate through flight test and school records, that he/she has the necessary aeronautical skill and experience to obtain a Commercial Pilot Certificate with an airplane category rating and single engine land rating.
- 2. Conduct a preflight inspection of the aircraft in accordance with the aircraft manufacturers handbook.
- 3. Demonstrate knowledge of airport operations and traffic pattern procedures
- 4. Perform takeoffs, landing, flight at minimum controllable airspeeds and ground reference maneuvers to the standards defined in the FAA Practical Test Standards.
- 5. Demonstrate the ability to perform emergency procedures in accordance with the aircraft manufacturers handbook.
- 6. Perform basic instrument maneuvers
- 7. Demonstrate night operations
- 8. Conduct aircraft post flight procedures

Lecture Content

This is a lab only course.

Lab Content

Meet the following flight experience requirements: 100 hr. in powered aircraft, of which 50 hr. must be in airplanes 100 hr. as pilot in command flight time, which includes at least: 50 hr. in airplanes 50 hr. in cross-country flight of which at least 10 hr. must be in airplanes 20 hr. of training in the areas of operation listed in item 8. below, including at least: 10 hr. of instrument training of which at least 5 hr. must be in a single-engine airplane 10 hr. of training in an airplane that has a retractable landing gear, flaps, and controllable pitch propeller, or is turbine-powered One cross-country flight of at least 2 hr. in a single-engine airplane in day-VFR conditions, consisting of a total straight-line distance of more than 100 NM from the original point of departure One cross-country flight of at least 2 hr. in a single-engine airplane in night-VFR conditions, consisting of a straight-line distance of more than 100 NM from the original point of departure 5. 3 hr. in a single-engine airplane in preparation for the practical test within the 60 days preceding the test 10 hr. of solo flight in a single-engine airplane training in the areas of operation required for a single-engine rating, which includes at least: One cross-country flight of not less than 300 NM total distance, with landings at a minimum of three points, one of which is a straight-line distance of at least 250 NM from the original departure point In Hawaii, the longest segment need have only a straight-line distance of at least 150 NM. 5 hr. in night-VFR conditions with 10 takeoffs and 10 landings (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower

Method(s) of Instruction

- Lab (04)

Instructional Techniques

Equipment proficiency demonstrations

Reading Assignments

Study text material relating to completion of flight plans and flight logs, weight and balance exercises and aircraft performance problems.

Writing Assignments

Completion of flight plans and flight logs, weight and balance exercises and aircraft performance problems.

Out-of-class Assignments

Lab-only courses (outside assignments are not required).

Demonstration of Critical Thinking

In-flight problem solving exercises based on FAA Practical Test Standards for the rating being sought

Required Writing, Problem Solving, Skills Demonstration

Completion of flight plans and flight logs, weight and balance exercises and aircraft performance problems

Eligible Disciplines

Aviation (flight, navigation, ground school, air traffic control): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Other Resources

1. Instructor handouts: E-6B Flight Computer, Course Plotter, Los Angeles VFR Sectional Chart