APT A139: COMMERCIAL PILOT AVIATION GROUND SCHOOL

Item	Value
Top Code	302020 - Piloting
Units	3 Total Units
Hours	54 Total Hours (Lecture 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	Standard Letter (S)

Course Description

Provides academic background for Private Pilots preparing for the FAA Commercial Pilot license. Covers transport category aircraft performance considerations, advanced weight and balance, multi-engine aerodynamics, and Federal Aviation Regulations applicable to Commercial pilots. Meets the preparation requirements for the FAA Commercial Pilot computerized knowledge examination. PREREQUISITE: APT A130 or current Private Pilot Certificate with Instrument rating; Students satisfying the Pilot Certificate prerequisite must present proof to the instructor at the first week of the course. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Prepare to take the Federal Aviation Administration (FAA) Knowledge Test for Commercial Pilot.
2. Prepare to take the Practical Test for Commercial Pilot receiving in-flight instruction from a Certificated Flight Instructor.

Course Objectives

- 1. Update skills in problem solving as related to Federal airspace and elevate skills in advanced navigation, regulations regarding commercial operation.
- 2. Describe and identify retractable gear, constant speed propellers and other "complex" aircraft systems.
- 3. Illustrate and explain commercial flight maneuvers.
- 4. Interpret flight for hire regulations from the Federal Air Regulations.
- 5. Differentiate and identify commercial and heavy aircraft Powerplants and fuel systems.
- 6. Assess and describe constant speed propellers.
- 7. Diagram retract landing gear systems.
- 8. Recognize and describe emergency systems and procedures.
- 9. Examine maximum aircraft performance criteria.
- 10. Calculate and solve advanced weight and balance problems.
- 11. Evaluate and compare corporate and airline flying careers.
- 12. Employ cockpit resource management skills.
- 13. Prepare to take commercial pilot examination.

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- DE Online Lecture (02X)