

Course discipline/number/title: AVIA 2251: Commercial Pilot Lab II

A. CATALOG DESCRIPTION

1. Credits: 2
2. Hours/Week: 4
3. Prerequisites (Course discipline/number): AVIA 2200, AVIA 2250
4. Other requirements: Requires current medical certificate, airport security clearance, completion of prerequisite program courses with a C or better, and program approval to register.
5. MnTC Goals (if any): NA

**COURSE DESCRIPTION:** This course along with AVIA 2250 will provide the knowledge and skill necessary to earn a Federal Aviation Administration Commercial Pilot License. This lab includes 28 hours of one-on-one ground instruction along with 27 hours of flight training in an airplane or flight training device with an FAA Certified Flight Instructor or solo to gain the level of proficiency required to pass the FAA Commercial Pilot practical test. Instruction includes requirements as listed in the Federal Aviation Regulations. Requires current medical certificate, airport security clearance, completion of prerequisite program courses with a C or better, and program approval to register.

B. DATE LAST REVISED (Month, year): November, 2022

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Commercial Maneuvers
  - a) Eights on a pylon
  - b) Turns about a point
2. Aircraft performance
  - a) Pressure altitude
  - b) Density altitude
  - c) Takeoff and climb
  - d) Cruise performance
  - e) Normal landings and crosswind components
3. Cross country flight operations
  - a) Short and soft field takeoffs and landings
  - b) Standard rate turns
  - c) Unusual attitudes
  - d) Maneuvering during slow flight
  - e) Taxiing
  - f) Wind shear and wake turbulence
  - g) Collision avoidance
  - h) Engine operations
  - i) Propellers
4. Aeromedical factors
  - a) Aeronautical decision making
  - b) Cross country in complex aircraft
5. Documents and certifications
  - a) Responsibilities and restrictions
  - b) Recency checks and experience
6. Preflight action
  - a) Maintenance
  - b) Equipment requirements
  - c) Flight restrictions
  - d) FAA and National Transportation Safety Board notifications
7. Commercial operations abbreviations and symbols check ride briefing

D. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Demonstrate proficiency in all areas defined in the Commercial Pilot Practical Test Standards.



- D. LEARNING OUTCOMES (GENERAL): The student will be able to: Continued. . .
  - 2. Meet or exceed the Federal Aviation Administration standards for aeronautical knowledge, aeronautical experience, and flight proficiency for passing the FAA commercial pilot practical test.
- E. LEARNING OUTCOMES (MNTC): NA
- F. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:
  - 1. Demonstrations
  - 2. Exams
- G. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s):  
Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.
- H. SPECIAL INFORMATION (if any): None