

Course discipline/number/title: AVIA 1211: Private Pilot Lab II**A. CATALOG DESCRIPTION****1. Credits: 2****2. Hours/Week: 4****3. Prerequisites (Course discipline/number):****4. Other requirements:** AVIA 1210 must be taken as a pre-requisite or co-requisite. Requires current medical certificate, airport security clearance, and program approval to register.**5. MnTC Goals (if any): NA**

B. COURSE DESCRIPTION: This course along with AVIA 1210 will provide the knowledge and skill necessary to earn a Federal Aviation Administration (FAA) Private Pilot Certificate with Airplane Single-Engine category and class ratings. This lab includes 30 hours of one-on-one ground instruction, along with 30 hours of actual 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 Private Pilot practical test. Instruction includes requirements as listed in the Federal Aviation Regulations.

C. DATE LAST REVISED (Month, year): January 2024

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Traffic patterns
 - a) Normal/crosswind landings
 - b) Forward slips to landings and go arounds
2. GPS and radio navigation procedures, and solo flight preparation
3. Short field, soft field and crosswind takeoffs and landings
 - a) Control by reference to instruments,
 - b) Dangers of flying Visual Flight Rule(s) into Instrument Meteorological Conditions (IMF)
4. Solo flight to practice area
 - a) Pilotage
 - b) Dead reckoning
 - c) Introduction to cross country flights
5. Emergency Operations
6. Solo flight
 - a) Pilotage and dead reckoning
 - b) Flight to practice area and to satellite airports
 - c) Airport traffic patterns and landings
7. Visual Flight Rules (VFR) cross country flight as assigned by the Certified Flight Instructor (CFI), with destinations that are at least 50 Nautical Miles apart
8. VFR cross country to an airport with an active control tower
9. Night VFR cross country flight to at least one destination using navigational resources
 - a) Geographical Positioning Systems (GPS)
 - b) Very high frequency omni-directional radio (VOR) beacon
10. Continue solo and dual cross-country training to build proficiency required to pass Private Pilot check ride
11. FAA Private Pilot Check ride
 - a) Training maneuvers
 - b) Takeoffs
 - c) Traffic patterns
 - d) Landings, and emergency procedures

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

1. Demonstrate proficiency in all areas defined in the Private Pilot Practical Test Standards.
2. Plan a cross country flight including weather, performance, airspace, weight and balance, and fuel endurance considerations.
3. Demonstrate proper short field, soft field and crosswind takeoff and landing procedures.
4. Determine aircraft position using pilotage, dead reckoning, and radio navigation procedures.
5. Select alternate airports for emergency or weather diversion purposes.

- E. LEARNING OUTCOMES (GENERAL):** The student will be able to: **Continued. . .**
6. Select appropriate emergency landing locations and demonstrate simulated emergency landings.
 7. Meet or exceed the Federal Aviation Administration standards for aeronautical knowledge, aeronautical experience, and flight proficiency for passing the FAA Private Pilot practical test.
- F. LEARNING OUTCOMES (MNTC):** NA
- G. METHODS FOR EVALUATION OF STUDENT LEARNING:** Methods may include but are not limited to:
1. Demonstration
 2. Exams
- H. 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.
- I. SPECIAL INFORMATION (if any):** None