

Course discipline/number/title: AVIA 1321: Instrument Pilot Flight Lab II**A. CATALOG DESCRIPTION****1. Credits:** 1**2. Hours/Week:** 2**3. Prerequisites (Course discipline/number):** AVIA 1310, AVIA 1320**4. Other requirements:** Requires current medical certificate, admission to the program and completion of all prerequisite program courses with a C or better and Dean approval to register.**5. MnTC Goals (if any):** NA

B. COURSE DESCRIPTION: This course along with AVIA 1320 will provide the knowledge and skill necessary to earn a Federal Aviation Administration (FAA) Instrument Pilot Rating. This lab includes 15 hours of one-on-one ground instruction along with 15 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 Instrument Rating practical test. Requires current medical certificate, airport security clearance, completion of prerequisite program courses with a C or better and program approval to register.

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

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Instrument Landing System (ILS) approaches and procedure turns
2. Radio Navigation (RNAV) Approaches with vertical guidance
3. Localizer Performance with Vertical (LNAV) guidance and localizer approaches
4. Very High Frequency Omni-directional Radio (VOR) beacon and Nautical Decision Making (NDM) approaches
5. Circling approaches
6. Partial panel flying and using the autopilot for approaches
7. Short Instrument Flight Rules (IFR) cross country
8. Refining approaches
9. Long cross country

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

1. Demonstrate proficiency in all areas defined in the Instrument Rating Practical Test Standards.
2. Meet or exceed the Federal Aviation Administration standards for aeronautical knowledge, aeronautical experience, and flight proficiency for passing the FAA Instrument Rating 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