

Course discipline/number/title: AVIA 1310: Instrument Ground

A. CATALOG DESCRIPTION

1. Credits: 3
2. Hours/Week: 3
3. Prerequisites (Course discipline/number): AVIA 1200
4. Other requirements: Requires completion of all prerequisite program courses with a C or better.
5. MnTC Goals (if any): NA

**COURSE DESCRIPTION:** This course is the advanced instrument pilot ground school course in preparation for the Federal Aviation Administration (FAA) Instrument pilot rating and Instrument rating written examinations. Includes Federal Aviation Regulations, instrument approach procedures, and instrument enroute considerations. Requires completion of all prerequisite program courses with a C or better.

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

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Airport signs, markings and procedures
2. Flight instruments
3. Enroute charts
4. Meteorological Aerodrome Reports (METARs)
5. Terminal Aerodrome Reports (TAFs)
6. Weather
7. Practical risk management
  - a) Emergencies
  - b) Navigation
  - c) GPS navigation
8. Departures and arrivals
9. Holding patterns
10. Approach charts
11. Aeronautical information manual, federal aviation regulations
12. Flight planning, Instrument Flight Rules regulation refresher and test review

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

1. Demonstrate use of flight instruments, enroute charts, and weather forecasts
2. Demonstrate navigation, departures, arrivals, holding patterns and approach charts
3. Apply principles of Aeronautical Information Manual, Federal Aviation Regulations and flight planning

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:

1. Demonstration
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