Course Title: Instrument Rating Ground School

Course web page: http://www.collin.edu/ce/courses/instrumentratinggroundschoold.html

Course Description: Learn flight instrument systems, altitude instrument flying, Federal Aviation Regulations, air traffic control system, instrument charts, instrument approaches, weather, graphic weather products, high altitude considerations and IFR flight planning. All instruction is designed to prepare students in passing the examination and certification as an instrument-rated pilot. To earn credit for the class, participants must pass a written exams. After satisfactory completion of the course, participants can sit for the FAA written exam. Tuition does not include the FAA exam fee.

Suggested Course Prerequisite(s): Private Pilot Ground School or Private Pilot License

Course Objectives:

1. Study flight instrument systems, altitude instrument flying.
2. Study FARs, air traffic control system, instrument charts, instrument approaches.
3. Study weather factors, printed and graphic weather products, weather hazards, and high altitude considerations.
4. Study IFR flight planning techniques and requirements
5. Discuss potential IFR emergencies
5. Obtain the knowledge to pass the FAA examination as an instrument-rated pilot.

Lesson Plan – by week or session

Session 1: Chapter 1- Instrument training, human factors
Session 2: Chapter 2- Instrument Systems Attitude Instrument Flying
Session 3: Chapter 2- Attitude Instrument Flying continued Instrument Navigation
Session 4: Chapter 3- Air Traffic Control System Airspace ATC clearances
Session 5: Chapter 9- Meteorology Weather Factors, Weather Hazards
Session 6: Chapter 9- Meteorology Printed weather products
Session 7: Chapter 9- Meteorology Graphic weather products, Internet weather sources
Session 8: Chapter 4- Instrument Departure Procedures
Session 9: Chapter 5- Enroute IFR charts and procedures Holding Patterns.
Session 10: Chapter 6- Arrival Charts and Procedures
Session 11: Chapter 7- Instrument approach charts and procedures
Session 12: Chapter 8- Instrument Approaches
Session 13: Chapter 10- Instrument Flight Considerations
Session 14: Field trip- If possible (depends on Homeland Security Alert Level)
Session 15: Federal Aviation Regulations Review for final exam
Session 16: Final Exam
**Course Sessions:** listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

**Americans with Disabilities Act:** Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

[http://www.collin.edu/studentresources/personal/studenthandbook.aspx](http://www.collin.edu/studentresources/personal/studenthandbook.aspx)