

Collin College - Continuing Education COURSE SYLLABUS

COURSE INFORMATION

Course Number: AIRP 7070

Course Title: Private Pilot Ground School

Course Description: This course covers the prerequisites specified in Federal Aviation Regulations, Part 61 for a private pilot written test. Topics will include aircraft systems and performance, meteorology, interpreting weather data, basic navigation, radio navigation, aviation physiology, aerodynamics, flight, planning and federal regulations. To earn credit for the class, you must attend 90 percent of classes and pass written exams. After satisfactory completion of the course, you can sit for the FAA written exam. **Tuition does not include the FAA exam fee.**

Suggested Course Prerequisite(s): None

Course Resources: N/A

Student Learning Outcomes:

1. Obtain aeronautical knowledge.
2. Expose to aircraft systems, and performance, meteorology, interpreting weather data, basic navigation.
3. Radio navigation, aviation physiology and aerodynamics.
4. Flight planning and Federal regulations.

Certification Notes: N/A

Next course recommendation: N/A

Refund Policy: Please refer to www.collin.edu/ce/infoRegistrar.html for our refund policy. No refunds after the start time of the first class.

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-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

Course Sessions: Listed are guidelines 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.

Lesson Plan – by week or session:

- Session 1:** Introduction, questions
Pilot Training
Introduction to Human Factors
- Session 2:** Airplane Systems
Airplanes, power plant
Flight instruments
- Session 3:** Aerodynamic Principles

- Four Forces of Flight
- Stability, Aeronautical Charts
- Session 4:** Stage 1 Exam Chapters 1, 2 & 3
- Chapter 4-The Flight Environment
- Safety of Flight, Airports
- Aeronautical Charts, Airspace
- Session 5:** Communications and flight information
- Radar and ATC services
- Radio procedures
- Source of flight information
- Session 6:** Exam chapters 4 & 5
- Chapter 6-Meteorology for pilots
- Basic weather theory
- Weather patterns
- Weather hazards
- Session 7:** Interpreting weather data
- The forecasting process
- Printed reports and forecasts
- Graphic weather products
- Source of weather information
- Session 8:** Exam chapters 6 & 7
- Chapter 8-Airplane performance
- Predicting performance
- Weight and balance
- Flight computers
- Session 9:** Navigation
- Pilotage and dead reckoning
- VOR navigation, ADF navigation
- Advanced navigation
- Session 10:** Flying cross country
- Flight planning
- The flight
- Session 11:** Stage 3 exam chapters 8-11
- Review Exam
- Session 12:** Apply human factors principles
- Aviation physiology
- Aeronautical decision making
- Session 13:** Federal Aviation regulations
- Part 1 definitions and abbreviations
- Part 61 certification
- Part 91 general operations and flight rules
- NTSB 830 aircraft accident and incident reports
- Session 14:** Review for final exam
- Session 15:** Review for final exam
- Session 16:** Final

Method of Evaluation: Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.