**Course Title:** Private Pilot Ground School

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

**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 Objectives:**

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

**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

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