

Aviation Honors Ground School AS-500

2016-2017

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Disclosure Statement

Highlights:

- Students must be Juniors or Seniors in JROTC to be eligible for this class
- Each cadet enrolled will receive a local orientation flight early in the program
- This is a rigorous course intended to prepare students for the FAA written exam for private pilot certification

Topics:

- Pilot Training
- Aviation Opportunities
- Human Factors
- Aircraft Systems
- Aerodynamic Principles
- Flight Environment
- Communications
- Weather Factors

Course Overview

The material covered is an advanced, more in-depth study of previous aerospace topics. This course is the foundation for students interested in receiving a private pilot's license. When the course is completed the students will be prepared to take and pass the Federal Aviation Administration (FAA) written examination. The *Private Pilot Manual* is the primary source for initial study and review. The text contains complete and concise explanations of the fundamental concepts and ideas that every private pilot needs to know. The subjects are organized in a logical manner to build upon previously introduced topics. Subjects are often expanded upon through the use of Discovery Insets, which are strategically placed throughout the chapters. Periodically, human factors principles are

presented in Human Element Insets to help you understand how your mind and body function while you fly. Throughout the manual, concepts that directly relate to FAA test questions are highlighted by FAA Question Insets. Additionally, you can evaluate your understanding of material introduced in a particular section by completing the associated review questions.



This is considered an honors course; any student enrolled without a 3.0 GPA will be on probation for the first 4 weeks. At that time, a decision will be made as to whether the student will be allowed to continue.

GRADING: Grades will be based on participation, homework, daily preparation, quizzes and tests. Students will take the Federal Aviation Administration Written Exam for Private Pilot Certification no later than Saturday, 12 May 2017. By submitting proof of passing the FAA exam, student will receive an automatic A for the fourth quarter. Failure to pass the FAA test will force the 4th quarter grade to be based on normal grading factors. However, no better than a B grade can be earned without passing the FAA test, as success there is the overall goal.

94-100 = A	84-86 = B	74-76 = C	64-66 = D
90-93 = A-	80-83 = B-	70-73 = C-	60-63 = D-
87-89 = B+	77-79 = C+	67-69 = D+	0-59 = F

The FAA Exam costs \$150. Taking this test is NOT optional; passing it is the whole purpose of the course and it must be taken in May. If you can't come up with the money, don't take the course!

Course Objectives

The course objectives are:

1. Comprehend the fundamentals of flight.
2. Comprehend flight operations.

3. Comprehend the atmosphere and its effect on aircraft operations.

4. Comprehend the basics of navigation and using charts and radio aids.

5. Apply the principles of aeronautical decision-making and flight-related physiological factors.

6. Pass the FAA written exam for Private Pilots.