

# Advanced Aviation Science Private Pilot - Syllabus

## Introduction

Welcome to the second AeroScholars high school course, focused on advanced principles of aviation science and the completion of your FAA Private Pilot Knowledge (Written) Examination. We hope that your experience in this course will be rewarding and lead to a lifetime love of flying.

For nearly all of you, this is your second experience in an online course, following the Fundamentals of Aviation Science Course that forms a pre-requisite for this course. Online learning can be a wonderful interactive learning experience if you follow the suggestions and study methods we recommend in each lesson.

The course is dynamic, which means it changes. It can change as new information and better techniques or examples are developed. You can participate in discussions with your classmates, via a class bulletin board. You can talk to the online instructors and support staff via e-mail. You can also travel to links outside of the site to broaden your experience.

The class is not a textbook on the Internet. It sometimes may look like one, but is not. The class, however, is based on lectures honed over many years of teaching. It adds emphasis to the important questions, concepts, and principles that will help you become a good pilot.

**Demo** > <http://www.aeroscholars.com/course-demo2/>

## Grades

Your grade for this course is based upon completion of the assignments listed below. Each assignment is explained in detail below the table.

Item	Points
Lecture Quizzes (10 points each)	160
Cross Country Flight Planning Assignment	100
Midterm I	100
Midterm II	100
Final Examination	200
<b>Total</b>	<b>660</b>

## Lecture Quizzes

After reading and studying each lecture, you should take its corresponding online lecture quiz. There are a total of 16 quizzes, worth 10 points each, which will help prepare you for the midterm exams and the final.

## Cross-country Flight Planning Assignment

This hands-on activity will focus on completion of an actual flight navigation log and flight plan form for a cross-country flight over 150 nautical miles. It will incorporate much of your learning from the second half of the course. The assignment is worth 100 points and is submitted by fax, by mail, or by email. When submitting your flight plan, please make sure you include your email address so that we can email you that it has been received.

The cross country flight planning assignment is found in lesson 15 on page 17. If you would like to receive feedback on your work for the cross country, please have this submitted to the support team at least one week prior to the end of the semester.

## Text Book

There are three text books for this course: 1) The FAA Private Pilot Test Supplement Book, 2) The Pilot's Handbook of Aeronautical Knowledge, and 3) Aerospace: The Journey of Flight.

1) The "FAA Private Pilot Test Supplement Book" is a hardcopy book provided in your course kit. This book is used as a reference for any figures noted in the lessons, on test prep questions, and on quizzes, midterms, and the final examination.

2) The Pilot's Handbook of Aeronautical Knowledge is available online in the "Text Book" link. Reading assignments for this book are listed in "Course Schedule".

3) Aerospace: The Journey of Flight is available online in the "Text Book" link. There are no reading assignments for this book. This is only an additional reference book for this course.

## Midterms and Final Examinations

The examinations will be taken online.

## Online Exam Access

- Exams may be accessed by first selecting the "Course" button, followed by the "Assignments and Exams" option.
- A list of assignments, including the exams will appear. Select the appropriate exam to begin.
- Each exam has a specific number of questions along with a pre-defined time limit for completing the exam. The table below shows the number of questions, the time limit for the exam, and the lessons from which the questions will be drawn.

Exam	Lessons Covered	Questions	Time
Midterm #1	Lessons 1-5	50 multiple choice	60 minutes

Midterm #2	Lessons 6-10	50 multiple choice	60 minutes
Final Exam	Lessons 1-17	60 multiple choice	80 minutes

## Additional Suggested Activities

### Extra Credit - Flight Simulator Cross-country Flight

This activity involves an actual or simulated flight (using Microsoft Flight Simulator) along a cross-country route of at least 150 nautical miles. The route may be from the previous Cross-country Flight Planning Assignment or one of your choosing.

This extra credit assignment is worth 20 extra credit points and can be found in lesson 15 on page 18. To receive extra credit, please mail, fax, or email the flight plan for this exercise with actual log data, and the accompanying write-up.

### FAA Private Pilot Airplane Knowledge Test (Private Written Exam)

Upon successful course completion, students may wish to take the FAA private pilot written knowledge test. This knowledge test is one of three primary requirements on your way to earning the private pilot certificate. The FAA requires that a certified instructor give you a "sign-off" or endorsement to take the knowledge test. Our support staff will send out endorsements via mail at the end of the semester. However, to respect the responsibility that an endorsement carries, we adhere to the following policies.

- You must successfully pass the course midterms and final exam with a score of 80% or better.
- If you do not receive an endorsement within two weeks after the semester ends, an endorsement request must be made to the AeroScholars Support Staff no later than one month after the semester ends.
- You will have one month to take the FAA Private Pilot Airplane Knowledge Test once you receive your endorsement. The endorsement will be dated to expire one month after its issue date.

### Note

It is your responsibility to complete the assignments on time, no later than the due date. You may view your progress in the course at any time by clicking on the grades button located on the tower bar. Grades for this course are updated frequently.

If your current email address or phone number changes at any point, please notify us as soon as possible. It is important that you check your email and the course news at least once per week to receive important course updates.