

WELCOME

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March 06, 2008 - March 13, 2008



Welcome!

Posted by Fred Dyen

Welcome to the World of Flying. I do not think you could have chosen a more challenging and exciting course to take than the one you are about to begin. And I am not speaking only to those of you who anticipate continuing with flight training to become pilots, but also to those of you who are taking the class just for fun. You will discover a wealth of information applicable to all areas of life and knowing about flying will make flying as a passenger much more enjoyable. You will see airplanes, airports, and pilots in a very different way.

I will share with you many personal experiences and the experiences of other pilots I have known over my flying career. I have discovered that sharing things that have happened to me and others has a lot of learning value. Sometimes what happened was not very funny. But, it is the scary things which will keep us reminded that aviation is a jealous mistress and we must always be on our toes or we will be taught some very rude lessons.

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You will work your way through 27 Lessons. Each lesson will begin with the required reading assignment, present the learning objectives for that lesson, and provide the amount of notes I think necessary to clarify points in your text or just simply add additional material. Over the many years I have instructed "Ground School" I know where comments from me can be helpful in your reading and understanding the material. Be aware, however, the text is the major source of information. In the lessons is where I will also share experiences.

Each lesson will conclude with the Federal Aviation Administration (FAA) questions pertaining to that lesson. Each question in the FAA test bank has been duplicated in the lessons. You can access the questions right from the lessons allowing you to practice as you go! I think you will enjoy and benefit from this innovation. As they say, *"Try it, you will like it."*

I have prepared a syllabus and placed in the area called Syllabus. You get there by simply clicking on the button to the left. You should begin immediately to look at syllabus and get started right away. Time is awasting - or, should I say in our case *time flies!*

One last note. Safety and good judgement are mandatory qualities for pilots. We will stress this point throughout this course.

Remember:

There are old pilots and there are bold pilots, but there are no old bold pilots.



Books



Text Book

Required Texts and Supplies:

- The Pilot's Manual Ground School, 3rd Ed, (2005). New Castle, WA. Aviation Supplies & Academics, Inc.
- Virtual Test Prep an Aviation Ground School, Aviation Supplies & Academics, Inc.
- 2006 FAA/AIM. (2006). New Castle, WA, Aviation Supplies & Academics, Inc.
- Fairbanks Sectional.
- A Plotter and a CB-6 Flight Computer.

Recommended Texts:

- The Complete Private Pilot 3rd Ed. (2002). Gardner, B., New Castle, WA. Aviation Supplies & Academics, Inc.
- The Pilot's Manual Flight School, 9th Ed. (2003). New Castle, WA, Aviation Supplies & Academics, Inc.



Syllabus



Syllabus

Syllabus

AVTY 100, 4 credits - PRIVATE PILOT GROUND SCHOOL

Instructor: Fred Dyen, ffdd@uaf.edu

Course Description: The student will study all aspects of flying in a general aviation environment. The areas covered include Airplane Systems, Aerodynamics, Airports, Communication, Meteorology, Performance, Navigation, Physiology and Regulations. Upon completion of the course the student may obtain a sign-off to take the *Federal Aviation Private Pilot Knowledge Test*.

Text and Materials: All texts and materials can be obtained when registering for the course. The Center for Distance Learning, Tamarac Air in Fairbanks, or [Aviation Supply & Academics, Inc.](#) are sources to purchase from. You will need:

- *The Pilot's Manual Ground School* by Aviation Supplies & Academics, Inc.
- *Private Pilot Virtual Test Prep an Aviation Ground School (DVD Set)* by Aviation Supplies & Academics, Inc.
- *2006 FAA/AIM*.
- A Fairbanks Sectional.
- A Plotter and a CB-6 Flight Computer.

The approximate cost for all materials is \$175.

Course Grading: You will have five tests and a final exam. None of the tests will be cumulative, however the final exam will be comprehensive. Each test is comprised of 45 questions directly taken from the *Test Questions* and another five will either be from the *Test Questions* or made up by the instructor. You will be given instructions on how to take the test at the time you are ready to take the first test.

Your letter grade will be as follows:

90 - 100%	A
80 - 89%	B
70 - 79%	C
60 - 69%	D
>70%	F

Test Schedule: Your tests will be given at the end of the following lessons -

- **Test 1 Aerodynamics:** After you complete Lesson 3.
- **Test 2 The Airplane:** After you complete Lesson 7.
- **Test 3 Airplane and Pilot Performance:** After you complete Lesson 12.
- **Test 4 Weather :** After you complete Lesson 18.
- **Test 5 Flight Operations:** After you complete Lesson 27.
- **Final Exam:** After you have successfully completed all tests and assignments.

You will access the practice quizzes in the "Practice Quizzes" area and tests and the final in the "Tests and Exam" area.

Note, when you go to the **Practice Quizzes** button you will see a series of folders with the same titles as the major sections of the text book. Within each folder will be quizzes that pertain to the section. You are encouraged to take each practice quiz as many times as necessary to prepare for each test. Once you are ready to take the test for your grade and

to advance in the Lessons, contact me for the password for the test and I will forward that to you. You may then proceed to the button labeled **Tests and Exam**. Here are contained the tests on which your total point accumulation will be based.

To qualify for an FAA sign-off to take the Knowledge Test, you must take every test and score at least 80% on every test and the final exam, essentially a "B" or better in the course.

In addition to the tests, you may have questions for me or your fellow students. I have set up five discussion topics in an area called **Hangar Flying** corresponding to the sections in the text. If questions occur over your reading or any other area, please do not hesitate to join the appropriate discussion area and fire away. Hangar Flying can be located by clicking on the Communication Button.

Course Procedure: You will work at you own pace. However, you have just the semester to complete the course. Permission to extend beyond the semester is a pain for both you and I so you should plan on completion. Let's get with the program and learn and complete the course in a timely fashion. Plan on finishing two lessons per week or scheduling the exams every three weeks.

Your Lessons are accessed via the button **Lessons**. Each lesson is self contained with reading assignment, learning objectives, notes by the instructor, a PowerPoint presentation, and of course the set of review questions at the end of each lesson. (Since the answers are provided in the back of the text, I felt it would be unnecessary busywork to ask you to submit the answers. It is still a good idea for you to answer the questions yourself without reference to the back of the text. The practice quizzes will contain questions from the *FAA Knowledge Test* and are provided for your convenience. You should make good use of these questions. They are the very questions from which most of your tests will be constructed and the exact identical questions the FAA will use for your Knowledge Test. (The FAA will select 60 from the entire 700+ questions.)

The final exam will be a proctored exam, so check with the Center for Distance Education regarding procedures to take the final.

I am always available for questions by e mail. Look at me as your personal tutor and if you have any questions at all do not hesitate to write me about anything you do not understand or any area you simply are having trouble with.

Please be sure to write me an e mail to let me know you are in the course. You are encouraged to contact me any time you have any questions or anything you want to share about aviation. Consider me your own private tutor! My e mail is: ffdd@uaf.edu or dyenfd@earthlink.net.



How To Forward Your Email

By following the directions below you should be able to have all your email forwarded from your aurora address to anywhere you normally receive your email.

If you have any problems please contact the Help Desk at fxhelp@uaf.edu.

1. Go to: <http://www.alaska.edu/oit/email/> and follow the directions.

Be aware that every semester students must go in and change their passwords. Usually occurs in October and February. So you will still have to do this if you are forwarding your email.



[Lesson #11 AIRPLANE AND PILOT PERFORMANCE - Weight and Balance](#)



[Lesson #12 AIRPLANE AND PILOT PERFORMANCE - The Human in the Cockpit](#)



[Lesson #13 WEATHER - Heating Effects in the Atmosphere](#)



[Lesson #14 WEATHER - Wind](#)



[Lesson #16 WEATHER - Air Masses and Frontal Weather](#)



[Lesson #15 WEATHER - Clouds and Thunderstorms](#)



[Lesson #17 WEATHER - Operational Weather Factors](#)



[Lesson #18 WEATHER - Weather Reports and Forecasts](#)



[Lesson #19 FLIGHT OPERATIONS - Regulations](#)



[Lesson #20 FLIGHT OPERATIONS - Charts](#)



[Lesson #21 FLIGHT OPERATIONS - Airspace](#)



[Lesson #22 FLIGHT OPERATIONS - Airports and Airport Operations](#)



[Lesson #23 FLIGHT OPERATIONS - Visual Navigation Fundamentals](#)



[Lesson #24 FLIGHT OPERATIONS - Using the Flight Computer](#)



[Lesson #25 FLIGHT OPERATIONS - Flight Planning](#)



[Lesson #26 FLIGHT OPERATIONS - En Route Navigation](#)



[Lesson #27 FLIGHT OPERATIONS - Navigational Aids](#)



[Titbits and Extras](#)

 **Lessons****Introduction**

Go to your **ASA Virtual Test Prep an Aviation Ground School *Disk 1*** and view the Introduction.

Check out your **START FLYING!** dvd and take a look at:

***Skills and requirements
Introductory flight
Earn a pilot's license***

**Lesson #1 AERODYNAMICS - Forces Acting on an Airplane****Lesson #2 AERODYNAMICS - Stability and Control****Lesson #3 AERODYNAMICS - Aerodynamics of Flight****Lesson #4 THE AIRPLANE - Airframe****Lesson #5 THE AIRPLANE - Engine****Lesson #6 THE AIRPLANE - Systems****Lesson #7 THE AIRPLANE - Flight Instruments****Lesson #8 AIRPLANE AND PILOT PERFORMANCE - Airplane Performance Factors****Lesson #9 AIRPLANE AND PILOT PERFORMANCE - Takeoff and Landing Performance****Lesson #10 AIRPLANE AND PILOT PERFORMANCE - En Route Performance**