

WANIC Aviation Syllabus 2024-25

Course Title: Aviation

Teacher: Mr. Rees, AGI (Advanced Ground Instructor), mrees@lwsd.org, office hours by apt.

Course Description: AM: 7:15-9:45, PM: 12:00-2:30

The WANIC Aviation course is structured around the curriculum provided by the AOPA (Aircraft Owner and Pilot Association), and covers all the material needed in order to pass the FAA Private Pilot Knowledge Test.

The course is organized around building broad knowledge and then moving on to apply that knowledge to real world scenarios. A significant amount of time will be spent learning the fundamentals of flight and how aircraft operate. Later in the class we use this knowledge to talk through scenarios and even fly them on a simulator.

Students taking this course should be able to take and pass the FAA Private Pilot Knowledge Test. This exam is 2 hours long and includes 65 multiple choice questions. Questions for in-class exams will be drawn from the same question bank.

Textbook and Cost:

There are many handbooks, circulars and other publications provided in PDF form for free by the FAA. Printed copies are available from ASA typically for about \$25. Most of the information taught will rely on the PHAK (Pilot's handbook of aeronautical knowledge) which will be provided in-class. Students who are serious about progressing to become certificated pilots should purchase copies of the Airplane Flying Handbook and (FAA-H-8083-3C) and the most recent FAR/AIM for their own reference.

Course Outline:

<p>First Semester Outline</p> <ol style="list-style-type: none">1: Aircraft and Pilot categorization and familiarization2: The forces of flight3: Aircraft and Airframe Systems4: Avionics5: Weather6: Airport Operations	<p>Second Semester Outline</p> <ol style="list-style-type: none">1: Sectional Charts2: Navigation3: Aircraft Performance4: Decision Making5: Flight Maneuvers6: Regulations7: Instrument Flying and Career paths in Aviation
--	--

-The order and timing of this outline is subject to change. The second semester will include significant simulator labs.

Rule(s): Aviation has many, many rules but they all boil down to just one: Do not endanger persons or property. My classroom expectations boil down to just one fundamental rule as well which is:

1: Respect yourself, your peers, your teacher and school property

I could draft a long list of detailed rules but just like aviation, we will face unique scenarios and exercising judgement is far more important than blindly following a list. However, this takes some time to establish so I've listed some expectations to help facilitate following our rule.

Expectations

1: Technology use will be minimal. Ample research has convinced Mr. Rees that on balance, technology causes more harm than benefit to students. This means we won't be using cell phones and iPad/Laptop use will be for specific, narrow purposes.

2: Be wrong as much as possible! - This one is uncomfortable for everyone but it is how we improve.

4. Do your best! No pilot is perfect but every pilot is continuously working to improve their knowledge, decision making abilities, understanding and skill level.

5. Ask questions if you are unsure. When I am flying a plane and are given a confusing directive from a controller, I always ask for clarification or verification

6: Dress professionally, in other words, come to class dressed up. WANIC polo shirts or equally professional attire should be worn at least Monday-Thursday

Grading Scale and Policy:

The class will require completion of homework, quizzes, tests and classwork/projects. I've noticed a wide distribution of student (and parent) attitudes and beliefs about grades. My goal is that you learn and do your best. Excessive focus on grades takes the focus off learning. We will all work together to make sure your grade is an accurate representation of both your effort and knowledge gained. In accordance with expectation #1, Grades will be posted in analog form on a regular basis and use the LWSD scale.

Make up and late work:

-Homework and projects are generally assigned at least 3-4 days in advance

-Unless you have a significant absence or make a request, assignments will be due on their due date or the day you return from an absence.

-I am more than willing to work with students if there are concerns about due dates

-Any requests about a due date must be communicated before the due date

-Homework can be redone the day after it is returned for full credit.

-Work turned in late will be graded with a 10% penalty per day late up to 50% off

-Accommodations will always be made for any student struggling, the sooner you ask, the more latitude I have in helping. Remember, the goal is for you to learn!

Read Back

In aviation, we use something called a “read back”. It is when a directive is repeated by the person about to carry it out to ensure the communication was made successfully. In years past, everyone just signed the syllabus and then was stunned when I cited something from it. So, your first task of the year is to answer the following three questions:

1: Describe in your own words what the rules of the class are

2: If you have an assignment assigned Monday to be due on Friday and you are absent Wednesday, when will the assignment be due?

3. If you have an assignment assigned Monday to be due on Wednesday and you are absent Wednesday, what will happen if you turn it in three weeks later?

4. What does Mr. Rees do when an Air Traffic Controller says something he doesn't understand? How is this relevant to this class?

Student Name (Print) _____ Course _____

I read, reviewed with my parents, and understand the rules and expectations for this course.

Parent's signature Date

Student's signature Date