

FLGHT 131 Flight Instructor Ground School summer, 2020

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Cell Phone: (559) 970-8147 Office Hours: By appt

CLASS LOCATION: JB Aeronautics

DAILY SCHEDULE: 7:00-9:50 AM MTWThF May 26th – June 23rd, June 29th,
 then
 7:00-9:50 AM Monday July 6th, 13th, 20th, 27th
 Last Test June 29th

IMPORTANT DATES: May 30 last day to drop for full refund
 May 30 last day to add a class
 June 7 last day to drop and not receive a "W" grade
 June 16 last day to drop but still receive a "W" grade
 July 31 last day of semester

REQUIRED TEXTBOOKS/EQUIPMENT:

- 1) Jeppesen Private Pilot and Instrument/Commercial Pilot Manuals
- 2) ASA Instructor 2020 Test Prep (ASA-TP-CFI-20)
- 3) Pilots Handbook of Aeronautical Knowledge FAA-H-8083-25B (electronic version is acceptable)
- 4) Flight Instructor's Handbook FAA-H-8083-9A (electronic version is acceptable but written copy is preferred)
- 5) Flight Instructor Practical Test Standards (FAA-S-8081-6DS) (Change 1-5) (electronic version is acceptable)
- 6) 2020 FAR/AIM
- 7) Airplane Flying Handbook FAA-H-8083-3B (electronic version is acceptable)
- 8) PA-38 or PA-28 POH (previously provided by Reedley College)
- 9) AC 61-65H Certification: Pilots and Flight Instructors
- 10) AC 00-6B Aviation Weather (electronic version is acceptable)
- 11) AC 00-45H Weather Services (with change 1) (electronic version is acceptable)
- 12) Aeronautical Decision Making (AC 60-22) (electronic version is acceptable)
- 13) JBA PA38 and PA28 Maneuver Guide and Commercial Maneuver Guide

COURSE DESCRIPTION: This course provides the aeronautical knowledge required for the Flight Instructor Airplane Certificate. FAA written test costs for this course are substantial.

PREREQUISITES: Flight Science 121

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COURSE CONTENT:

Student Learning Outcomes:

Upon completion of this course, students will be able to:

1. Determine that the student exhibits satisfactory knowledge of the Fundamentals of Instruction and Flight Instructor Knowledge necessary to teach students effectively
2. Demonstrate the ability to explain and critique basic and advanced flight maneuvers

Course Objectives:

In the process of completing this course, students will:

1. Prepare and pass both FAA Flight Instructor Written Exams
2. Prepare for the oral portion of the FAA Flight Instructor Practical Test

Outline:

- A. Fundamentals of Flight Instruction
 1. CFI Characteristics and Responsibilities
 2. Human Behavior and Effective Communication
 3. Learning Process
 4. Teaching Process and Methods
 5. Evaluation and Critique
 6. Techniques and Flight Instruction
 7. Planning the Instructional Activity
- B. Flight Instructor Airplane
 1. Aerodynamics and Flight Principles
 2. Aircraft Systems
 3. Performance and Limitations / Weight and Balance
 4. Aeromedical, Night and High Altitude Operations
 5. Weather Information and Services
 6. Airspace/Flight planning/Airport Operations
 7. Regulations and Publications
 8. Aircraft Certificate and Documents and Airworthiness
 9. Logbook Endorsements and Recommendations
 10. Basic and Advanced Flight Maneuvers

GRADING POLICY:

Minimum score for endorsement for FAA Written Exams -----	85%
Quizzes (all combined) -----	15 points
FOI Test 1 -----	25 points
FI Airplane Test 2 -----	25 points
Class Participation -----	15 points
FAA Written Test Results -----	<u>20</u> points
 COURSE TOTAL -----	 100 points

Grading Scale:	90.0% and above = A
	85.0% and above = B
	80.0% and above = C
	75.0% and above = D
	Below 75.0% = F

Scores will not be rounded up - i.e. 89.99% = B

There is no extra credit in this course.

GRADED ACTIVITIES:

Quizzes - All Quizzes are “Open-Note” in that students may use any set of notes during the quiz. It is NOT open-book. Quizzes typically have 8-10 questions and are typically multiple-choice. Quizzes will normally be administered at the beginning of each class which cover the previous day’s lecture. Quiz questions will be from lecture, textbook and FAA questions.

Class Participation – Student shall come to each class prepared and ready to ask and answer questions from the reading regarding key concepts and applied principles, as well as demonstrate instructional skills as required

Tests - The tests are “Closed-Book” in that students may not refer to any document during the test. All answers must come from memory. Test questions may be multiple-choice questions. All questions will be from lecture, textbooks and FAA questions.

FAA Written Test – The instructor must endorse the student prior to taking the tests. A score of 85% must be achieved on the in-class Tests to be endorsed for each FAA Exam. It is highly recommended students use professional FAA test preparation software to prepare for this test.

The FAA Written Exams must be taken at the scheduled day/time. The first attempt score on this test will be used to calculate the course grade. A subsequent attempt may be taken if needed to pass the corresponding Flight Lab course. All FAA testing costs are the responsibility of the student.

DAILY CLASS SCHEDULE OF EVENTS: See Daily Schedule for calendar of topics, quizzes, tests and final exam.

HOMEWORK: Homework typically consists of reading assignments from multiple sources, and FAA questions. Homework also includes study for studying for tests and the FAA written test.

ATTENDANCE POLICY: The intent of this attendance policy is to ensure:

- 1) The student gains the most from the learning experience of this course and is present to learn.
- 2) The student learns the typical attendance responsibilities when employed as a pilot.

Graded activity will occur nearly every class meeting. Students are expected to be in the classroom and ready to take the daily quiz or Test no later than the official start time of the class.

Reading assignments, homework, lectures and test dates may be verbally changed and announced during any class meeting. Students are expected to attend all scheduled class meetings, be punctual, write down assignments, and follow all verbal and written instructions. It is the student's responsibility to makeup missed work if the student is late or absent.

Documented circumstances beyond student's control may be considered for an excused absence. If students know in advance that they are going to miss a class meeting or be absent for any length of time, they shall submit an email or written request in advance to the instructor with name, reason for absence, proposed make-up date/time and provide appropriate documentation. Students will typically be allowed to accomplish the graded activity early, but not late. Requests for absences for personal reasons will be taken under consideration and require the same advance request requirements.

If an event is missed for a reason beyond the control of the student, the student must call the instructor at least 30 minutes prior to the start of the event if possible, but preferably, as soon as it is apparent that a class meeting will be missed. The student will then need to provide hard copy documentation proving the absence was outside of the student's control.

If student cannot produce appropriate documentation that proves the circumstances were out of their control or student and fail to call the instructor 30 minutes prior to the class meeting in case of an illness, it will be considered an unexcused absence.

If a late arrival or absence occurs and is excused, the student has 7 calendar days to make-up all graded activity or a zero will be assigned to that activity. If it was an unexcused late arrival or unexcused absence, then the student has 7 calendar days to make up the work at half (50%) credit.

It is the student's responsibility to ask the instructor to accomplish a make-up graded activity.

STUDENT CONDUCT STANDARDS: Respect for the rights of others and for the College and its property are fundamental expectations for every student. The "Student Conduct Standards" outlines behavioral expectations, and explains the process for responding to allegations of student misconduct. Students who do not comply with the

“Student Conduct Standards” are subject to the College disciplinary actions. The Student Conduct Standards can be found at

<https://www.reedleycollege.edu/about/about-us/policies-and-procedures/student%20conduct%20standards.html>

BEHAVIOR: Any behavior which disrupts other student learning will not be tolerated. Here are some examples of inappropriate in-class behavior:

1. Eating of any kind in class or lab. However water bottles are allowed in classrooms.
2. Using foul language
3. Talking over the instructor
4. Cell phones calls or texting during class
5. Horseplay
6. Discriminatory or harassing remarks based on gender, age, national origin, race, religion or disability.

ACADEMIC DISHONESTY: Students at Reedley College are entitled to the best education that the college can make available to them. Students, their instructors, and their classmates share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another’s work, supplying one’s work to another, giving or receiving copies of examinations without an instructor’s permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another’s words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights. Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

While in possession of quizzes or tests (either during the exam or during review),

student may not take pictures or take notes of any kind on the testing material

DOING WELL IN THIS COURSE: To learn the most from this course, the instructor suggests the following techniques:

- 1) Maintain punctual and perfect attendance.
- 2) Show up prepared (having read text, accomplish homework assignments, studied for tests/final exam, and brought equipment (homework, notepaper, lecture notes, pencils, pens, erasers, charts) to class.
- 3) Study alone plus participate in a study group three times per week (every week) to do practice questioning for each test/exam.
- 4) Read and follow all verbal & written (syllabus, exams, homework, project) instructions.
- 5) Use a day planner and refer to schedule of class activities.
- 6) Get a good night's sleep, eat healthy, exercise, and stay hydrated.
- 7) Ask the instructor for additional help when necessary.

PROBLEMS: Personal problems that affect your academic performance must be brought to the attention of the instructor immediately. *Problems must be worked out in advance.* Doing poorly on a graded activity or not showing up for a graded activity cannot be fixed "after the fact."

CELL PHONE, TABLETS, LAPTOPS: No use of Personal Electronic Devices (PED) (such as cell phones, tablets) in class (laptops/tablets may be used to take notes in class) without prior instructor permission.

STUDENTS WITH DISABILITIES/SPECIAL ACCOMMODATIONS: If you have a verified need for an academic accommodation or materials in alternate media (i.e. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or section 504 of the Rehabilitation Act, please contact me as soon as possible.

GRIEVANCE PROCEDURE: Every effort is made to treat all students the same. If you feel you have been treated unfairly, please inform the instructor immediately so appropriate corrections can be made. If you have a problem with the instructor or the way this course is conducted, please talk to the instructor immediately.