

**Aviation 112**  
**Spring 2017 Semester**  
**Course Outline – Classroom Syllabus**  
**Professional Commercial Pilot Course**

Class Number: 25435  
Final Exam: Monday, May 22 from 0715-0930  
Prerequisites: Private Pilot Course, Avia 2, Avia 62, Avia 31, Avia 42, Avia 43, Avia 91  
Class Hours: Mondays & Wednesdays from 9 am to 10:15 am in IS-216  
~ 40 Hours [15 weeks @ 2.5 hours/week and equals 3 semester units]  
Instructor: Glynn Falcon, Attorney at Law  
Office: IS-133C  
Phone: 408-924-3203 office, 650-400-1523 cell  
e-mail: [ProfFalcon@AOL.com](mailto:ProfFalcon@AOL.com)  
Office Hrs: Mondays 1:30 to 2:50, Wednesdays 10:30 to 11:50. Other times by prior arrangement. I am not on campus on Tuesdays, Thursdays, or Fridays. I am always available by email, and by cell phone at reasonable times (but I will only answer if I can identify you with caller ID).

**PROFESSIONAL COMMERCIAL PILOT (Single & Multi Engine Prop and Jet)**

**Course Enrollment Prerequisites**

To enroll in the Commercial Pilot Certification Course, the student must have completed Aviation 2, 31, 42, 43, 62, and 91. It would be helpful if the student also held a Private Pilot (Airplane or Rotorcraft) or Light Sport Plane Certificate.

**Course Objective**

The student will not only obtain the knowledge necessary to meet the requirements for a commercial pilot certificate and for the Commercial Pilot Airplane Knowledge Test, but will understand the concepts of crew resource management, take-off considerations for light twins, commuter and transport category aircraft, rejected take-offs and slush drag deceleration. Students will also understand the aircraft limitations, high altitude and Mach flight and the inherent hazards, flight in severe turbulence, cruise flight for best speed and fuel economy in prop and jet aircraft, jet compressor stalls, fire in flight, departure and deep-stall phenomena, accident spin avoidance and recovery, icing conditions and limitations, decompression issues, landings including undershoots, crosswind, braking and tires issues, emergency stops, captain and crew call-outs.

**Classroom Training Course Objective**

The student will obtain the necessary aeronautical knowledge and meet the prerequisites specified in FAR Part 141 for the commercial pilot airmen knowledge test and will understand the concepts of crew resource management, take-off considerations of light twins, commuter and transport category aircraft, rejected take-offs and slush drag deceleration. Students will understand the aircraft limitations, high altitude and Mach flight and inherent hazards, flight in severe turbulence, cruise flight for best speed and fuel economy in prop and jet aircraft, jet compressor stalls, fire in flight, departure and deep-stall phenomena, accident spin avoidance and recovery, icing conditions and limitations, decompression issues, landings including undershoots, crosswind, braking and tires issues, emergency stops, captain and crew call-outs.

**Textbooks**

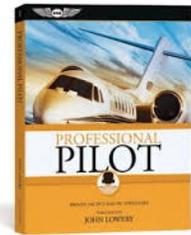
**“Profession Pilot”** by ASA

**“Commercial Pilot Test Prep 2017”** by ASA

To the extent feasible, the course will seek to use textbooks that are free and/or of relatively low cost. There are many outstanding publications published by the FAA via the GPO, and are downloadable for

free. These include:

- “Airplane Flying Handbook”
- “Risk Management”
- “Aviation Weather Services”
- “Advanced Avionics Handbook”
- “Aeronautical Information Manual”
- “Federal Aviation Regulations”
- “Aeronautical Decision Making.”



### **Requirements for Course Completion**

The student has demonstrated through knowledge tests that: (1) he/she meets the prerequisites specified in FAR Part 141 for the affiliated approved flight training school’s program; (2) understands the concepts of crew resource management, take-off considerations in light twins, commuter and transport category aircraft, rejected take-offs and slush drag deceleration, aircraft limitations, high altitude and mach flight and their inherent hazards, flight in severe turbulence, cruise flight for best speed and fuel economy in prop and jet aircraft, jet compressor stalls, fire in flight, departure and deep-stall phenomena, accident spin avoidance and recovery, icing conditions and limitations, decompression issues, landings including undershoots, crosswind, braking and tires issues, emergency stops, captain and crew call-outs; and (3) has the aeronautical knowledge necessary to pass the commercial pilot airmen knowledge test.

### **Grades & Grading**

Final exam	30%	
Midterm exam	30%	(Your score received on the FAA knowledge test)
10 Quizzes and/or assignments	40%	
<u>Total</u>	<u>100%</u>	

The first 7 weeks of the course will be spent on readying students to take the FAA Knowledge exam utilizing the **Commercial Test Prep 2017**. For those holding a Private Pilot certificate, the midterm will consist of the student taking, and passing, the Commercial Pilot knowledge test at a designated test site during, or before, the Spring Break. For students without a pilot certificate, the midterm will consist of the student taking, and passing, the Private Pilot or Light Sport airplane knowledge test at a designated test site during, or before, the Spring Break. The percentage score received on the FAA exam will be used as the midterm grade. Expect the FAA examiner to charge about \$120 for the Computer Based Test. I will provide you with certification to take the test.

After the Spring Break, the class will focus on the topics listed in the **Professional Pilot** textbook, such as crew resource management, take-off considerations in light twins, commuter and transport category aircraft, rejected take-offs and slush drag deceleration, aircraft limitations, high altitude and mach flight and their inherent hazards, flight in severe turbulence, cruise flight for best speed and fuel economy in prop and jet aircraft, jet compressor stalls, fire in flight, departure and deep-stall phenomena, accident spin avoidance and recovery, icing conditions and limitations, decompression issues, landings including undershoots, crosswind, braking and tires issues, emergency stops, captain and crew call-outs.

The Final exam will be on those topics covered following the spring break.

### **Schedule (reading & quizzes)**

The first seven weeks will be spent going through the test subjects and materials contained in the 2017 Test Prep, pretty much in sequential order. Likewise, after the Spring Break, we will cover the material in the Professional Pilot textbook, again in sequential chapter order.

There will a quiz and/or assignment on Wednesday of each week in the semester, and based on the material cover that week.

### **Make-Ups and Late Work:**

Usually, make-up of quizzes or assignments is not allowed. When allowed, it is only by giving prior notice of the problem and making arrangements for makeup, with supplied documentation of the exigent, emergency circumstance for the absence.

### **Cell Phones**

Students should turn their cell phones off or put them on vibrate mode while in class. Should you have to take a cell phone call during class, simply leave the classroom and complete the call.

### **Computer Use**

In the classroom, you may use computers only for class-related activities such as taking notes on the lecture underway, following the lecture on Web-based Power Point slides that the instructor has posted, and finding Web sites to which the instructor directs students at the time of the lecture. Students who use their computers for other activities or who abuse equipment in any way, at a minimum, will be asked to leave the class and lose participation points for the day, and may be referred to the Judicial Affairs Officer of the University for prohibited uses of campus computers (Such referral can lead to suspension from the University). Students are urged to report to their instructors computer use that they regard as inappropriate (i.e., used for activities that are offensive or not class related).

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## **University Policies**

### **General Expectations, Rights and Responsibilities of the Student**

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90-5 at <http://www.sjsu.edu/senate/docs/S90-5.pdf>. More detailed information on a variety of related topics is available in the SJSU catalog, at <http://info.sjsu.edu/web-dbgen/narr/catalog/rec-12234.12506.html>. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

### **Dropping and Adding**

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's Catalog Policies section at <http://info.sjsu.edu/static/catalog/policies.html>. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at [http://www.sjsu.edu/provost/services/academic\\_calendars/](http://www.sjsu.edu/provost/services/academic_calendars/). The Late Drop Policy is available at <http://www.sjsu.edu/aars/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at <http://www.sjsu.edu/advising/>.

### **Consent for Recording of Class and Public Sharing of Instructor Material**

University Policy S12-7, <http://www.sjsu.edu/senate/docs/S12-7.pdf>, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

“Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”

It is suggested that the greensheet include the instructor's process for granting permission, whether in writing or orally and whether for the whole semester or on a class by class basis.

In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.

“Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”

### **Academic integrity**

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The [University Academic Integrity Policy S07-2](http://www.sjsu.edu/senate/docs/S07-2.pdf) at <http://www.sjsu.edu/senate/docs/S07-2.pdf> requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sjsu.edu/studentconduct/) is available at <http://www.sjsu.edu/studentconduct/>.

### **More about Cheating.**

At SJSU, cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means. Cheating at SJSU includes but is not limited to:

Copying in part or in whole, from another's test or other evaluation instrument;

Submitting work previously graded in another course unless this has been approved by the course instructor or by departmental policy.

Submitting work simultaneously presented in two courses, unless this has been approved by both course instructors or by departmental policy.

Altering or interfering with grading or grading instructions;

Sitting for an examination by a surrogate, or as a surrogate;

any other act committed by a student in the course of his or her academic work which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.

### **More about Plagiarism.**

At SJSU plagiarism is the act of representing the work of another as one's own (without giving appropriate credit) regardless of how that work was obtained, and submitting it to fulfill academic requirements.

Plagiarism at SJSU includes but is not limited to: the act of incorporating the ideas, words, sentences, paragraphs, or parts thereof, or the specific substances of another's work, without giving appropriate credit, and representing the product as one's own work; and representing another's artistic/scholarly works such as musical compositions, computer programs, photographs, painting, drawing, sculptures, or similar works as one's own.

### **Campus Policy in Compliance with the American Disabilities Act**

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. [Presidential Directive 97-03](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) at [http://www.sjsu.edu/president/docs/directives/PD\\_1997-03.pdf](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) requires that students with disabilities requesting accommodations must register with the [Accessible Education Center](http://www.sjsu.edu/aec) (AEC) at <http://www.sjsu.edu/aec> to establish a record of their disability.

### **Accommodation to Students' Religious Holidays**

San José State University shall provide accommodation on any graded class work or activities for students wishing to observe religious holidays when such observances require students to be absent from class. It is the responsibility of the student to inform the instructor, in writing, about such holidays before the add deadline at the start of each semester. If such holidays occur before the add deadline, the student must notify the instructor, in writing, at least three days before the date that he/she will be absent. It is the responsibility of the instructor to make every reasonable effort to honor the student request without penalty, and of the student to make up the work missed. See [University Policy S14-7](http://www.sjsu.edu/senate/docs/S14-7.pdf) at <http://www.sjsu.edu/senate/docs/S14-7.pdf>.

### **Student Technology Resources**

Computer labs for student use are available in the [Academic Success Center](http://www.sjsu.edu/at/asc/) at <http://www.sjsu.edu/at/asc/> located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library. A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include DV and HD digital camcorders; digital still cameras; video, slide and overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens and monitors.

### **SJSU Counseling Services**

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit [Counseling Services website](http://www.sjsu.edu/counseling) at <http://www.sjsu.edu/counseling>.