



**Southwestern Illinois College**  
**Course Syllabus**  
**Private Pilot Flight Theory AVIA 101**  
**Fall 2019**

**GENERAL INFORMATION:**

**Instructor:** Eric T. Stake  
**Class time:** 6 - 9:50 p.m. Tuesday  
**Semester Hours:** 4cr  
**Class Location:** LA 1204                      **Campus:** Belleville  
**Phone:** (all 618) 632-9663 (home) / 530-1961 (cell) / 229-8597 (work)  
**Toll Free in Illinois:** 1-800-222-5131  
**Office Hours:** By appointment  
**E-mail:** [eric.stake@swic.edu](mailto:eric.stake@swic.edu)  
**Website:** [www.swic.edu](http://www.swic.edu)    or    [www.stakenet.com](http://www.stakenet.com)

**COURSE DESCRIPTION:**

An introductory course designed to provide the student with the basic theory of flight, aircraft design and aircraft control. This course also introduces basic meteorology, pilotage, dead reckoning and electronic navigational skills, the flight computer, cross country planning along with the Federal Aviation Regulations that pertain to Private Pilots. These skills will be reinforced with classroom exercises and interactive test review. At the completion of this course, the student will have gained the knowledge and skills required to successfully pass the Federal Aviation Administration Private Pilot Airplane written exam.

**COURSE OBJECTIVES:**

- 1)** To know how to operate an airplane safely and to understand basic aerodynamics, communications and flight information available to pilots.
- 2)** To understand and interpret weather and to understand the role of weather in regard to safe operation of an aircraft.
- 3)** To understand and practice navigation of an aircraft cross country and the significance that performance, weight and balance and human factors have on the safety and successful completion of the operation.

**PREREQUISITES:** An interest in aviation and flight!

**TEXTBOOK(S) & TOOLS:**

- Jeppesen Sanderson Private Pilot Manual
- Test Review Book (Gleim, ASA, Jeppesen)
- E6B Flight Computer
- Plotter
- FAR/AIM
- Pilot's Logbook

**COLLEGE-WIDE CORE COMPETENCIES**

Students who complete a degree from SWIC will gain competency in skills related to communication, reasoning, and citizenship. In this class, students will develop skills or be exposed to the following competencies:

Citizenship Skills		Communication Skills		Reasoning Skills	
Civic & Social Accountability	<input type="checkbox"/>	Computer Literacy	XX	Critical Thinking	XX
Personal Accountability	<input type="checkbox"/>	Oral Communication	XX	Quantitative Literacy	XX
		Writing	<input type="checkbox"/>		

**GRADING PROCEDURE:**

Homework is due at the beginning of class on the listed dates. Homework assignments will *not* be accepted after the corresponding test!

**Letter Grade Points (total possible points is 335)**

A	301 – 335
B	268 – 300
C	234 – 267
D	201 – 233
F	200 and below

**Points for Homework Assignments and Examinations**

Task	Value
Test # 1	25
Test # 2	25
Test # 3	25
Test # 4	25
Test # 5	25
Final Exam (Practice FAA Exam)	60
In-Class Exercises (#1 through #5)	50
Homework Assignments (#1 through #10)	100
<b>Total Course Points:</b>	<b>335</b>

## **EXTRA CREDIT:**

Extra credit can be earned by bringing in aviation-related news items. Be prepared to present the article and discuss it in class.

**FAA minimum passing for Stage and Final exams is 80%.** If you do not pass a Stage exam, you will retake the exam; however, your final course grade is based upon the first grade. You must pass each Stage exam prior to moving on to the next stage.

**It is *highly recommended* that you read each chapter prior to class.** This will help you to understand subject material, prepare you to discuss the material in class, and help the instructor to answer any questions and clear up any misconceptions you might have.

## **ATTENDANCE POLICY:**

**College Attendance Policy:** You are expected to be present for all assigned classes, lectures or laboratory sessions. If you are absent, you must show your instructor that your absence has been for a good cause. If you are absent more times during the semester than the number of times the class meets per week, you may be dropped from the course at the discretion of the instructor. When a student is dropped by an instructor with an effective date before the midterm date of the class a "W" will be recorded. When a student is dropped for non-attendance by an instructor with an effective date after the midterm date, the instructor will have the prerogative to assign a grade of "F" or "W".

**FAA Attendance Requirement:** FAA Attendance Requirement: In order to go on and take your FAA Private Pilot examination, you must attend **every** session. Absences **must be made up with additional coursework & instruction** or you cannot obtain your signoff to take the FAA written examination.

**FAA Performance Requirement:** In order to go on and take your FAA Private Pilot examination, you must score **80% or better** on all Stage tests and Practice FAA tests (final). If you score less than this, you must make up your score by retaking the applicable test and **scoring 80% or better** or you cannot obtain your signoff to take the FAA written examination.

**FAA minimum passing for Stage and Final exams is 80%.** If you do not pass a Stage exam, you will retake the exam; however, your final course grade is based upon the first grade. You must pass each Stage exam prior to moving on to the next stage. Attendance is taken for each class. The instructor is available by appointment for additional instruction.

## **EMERGENCY CLOSURE STATEMENT**

In case of emergency closure, students must log into Blackboard, <https://blackboard.swic.edu/> for specific assignments/instructions. At the Blackboard log in, enter your User Name and SWIC password - choose your course(s) from the My Course menu. Your instructor will notify you where in the course shell specific assignments/instructions are located.

Posting of assignments/instructions during college closure are provided to prevent disruption in the planned course schedule. Some labs may have students complete assignments on alternate dates/times when the college is open. Your instructor must notify you of the practices within that program/discipline.

## **DISABILITY & ACCESS CENTER**

Students with disabilities who believe that they may need accommodations are encouraged to contact the Disability & Access Center at 618-222-5368 or 618-234-3347 (TDD) to ensure that such accommodations are implemented in a timely fashion.

## **STUDENT LEARNING OUTCOMES**

The assessment of student learning is an integral part of the educational experience at Southwestern Illinois College. To this end, the faculty continually assess student learning to improve student success. Occasionally you will be requested to participate in college-wide and/or discipline specific assessment activities. Please take these assessments seriously. The data that is collected will provide valuable information to faculty and will be used to improve student learning at SWIC.

## **ETHICAL CONDUCT – Academic Dishonesty**

**Academic Dishonesty-College Policy** – Academic misconduct includes, but is not limited to cheating, plagiarism and forgery, failure or refusal to follow clinical practice standards, and soliciting, aiding, abetting, concealing, or attempting such acts. Plagiarism is defined as the act of representing the work of another as one's own. Plagiarism may consist of copying, paraphrasing, or otherwise using written or oral work of another without proper acknowledgment of the source or presenting oral or written material prepared by another as one's own. Refer to the Student Handbook or College Catalog for more details.

## **ACADEMIC RIGOR STATEMENT**

You are enrolled in an academically rigorous college course. Your success in this course will require a significant investment of time outside of the class. According to the Administrative Rules of the Illinois Community College Board (section 1501.309), it is assumed that the student will invest two hours of outside study time for each hour of classroom lecture time and one hour of outside study time for each two hour laboratory session.

**Phones in Classroom** – All cell phones and electronic devices should be turned off or silenced prior to entering the classroom. Any permission for usage should be obtained prior to the start of class and is at the discretion of the instructor.

**Policy for Inclement Weather Conditions** – During times of inclement weather, Southwestern Illinois College has three options for dealing with the situation: cancel classes and cease all business, exercise the delayed-start option, or keep the college open. If the college chooses to use the delayed-start option rather than close, the college will open at 10 a.m. The decision to cancel classes or exercise the delayed-start option will be posted on the home page of Southwestern's Web site at [swic.edu](http://swic.edu) as well as broadcast on FOX 2 (KTVI), KMOV-TV Channel 4, KSDK-TV Channel 5, and radio stations KMOX-AM 1120 and WIL-FM 92.3.

**SWIC Alert** – This free emergency alert system sends text messages and/or emails to students and employees. Text messaging is an opt-in notification system where a text message can be received on your mobile phone. SWIC does not charge for this service; however, the only cost is what the cell phone carrier charges to receive text messages. You may choose to receive text messages or emails for a specific campus or all campuses. Once enrolled, your account is active for one year. You will receive notice 30-days before your enrollment will expire.

How to Register

1. Log in to eSTORM at [estorm.swic.edu](http://estorm.swic.edu)
2. Click Main Menu in the upper left
3. Scroll over SWIC Alert and choose SWIC Alert Signup

**Emergency Procedures** – General information about the emergency response and evacuation procedures for Southwestern are publicized each year as part of the institution's Clery Act compliance efforts and that information is available on the Southwestern Public Safety website. Emergency Response Guides and Plans are available on the Public Safety website at [SWIC.edu](http://SWIC.edu).

**Official Communication** – Your student e-mail account is the official method to communicate between you and your instructor. Official communication will not be sent to your personal e-mail (yahoo, wildblue, gmail etc.).

### **FAA WRITTEN EXAMINATION:**

**Upon successful completion of this class**, you will have **60 days** to take the FAA private pilot written examination (PAR). To help you prepare for the FAA private pilot written exam, you will most likely have the Gleim test prep book. If you instead choose to purchase the ASA ([www.asa2fly.com](http://www.asa2fly.com)) book, that's fine. Each of these books has enough information to help you pass your FAA written exam with flying colors!

The SWIC library has several computers available with the Gleim test pre software for your use in preparing for all tests. There are also several excellent additional references to prepare for the written exams:

If you want to use your Smartphone, "...there's an app for that!" ASA offers the "Prepware Private Pilot" app for studying anywhere, anytime. Android, Windows and Apple formats available.

Another excellent online reference is the test and study site at Sporty's Pilot Shop ([www.sportys.com/faatest](http://www.sportys.com/faatest)) for simulated FAA tests.

**NOTE:** It is highly recommended you schedule your FAA exam *immediately* after the class while the information is fresh in your mind. If you wait...you will have to spend *MORE* time studying the information you just learned.

**Once you complete the FAA Written Test**, you must follow up with your instructor with your written test score via call, text, or e-mail.

## TOPICAL OUTLINE/COURSE SCHEDULE/HOMEWORK ASSIGNMENTS:

Date	Course Schedule
20 August 2019	Course Overview/Introductions Discovering Aviation Chapter 1 Sections A, B & C Handout Homework Packet #1 (1-2-3)
27 August 2019	Airplane Systems Chapter 2 Sections A, B & C
3 September 2019	Aerodynamic Principles Chapter 3 Sections A, B & C <b><u>Turn in Homework Assignment # 1</u></b>
10 September 2019	The Flight Environment / Runway Incursion Chapter 4 Sections A, B & C <b>Exercise:</b> Understanding Aviation Sectionals <b><u>Turn in Homework Assignment # 2</u></b> Review for Exam #1
17 September 2019	<b><u>Exam #1 – Chapters 1 – 3</u></b> Communication and Flight Information Chapter 5 Sections A, B & C
24 September 2019	The Flight Environment (Part II) <b><u>Turn in Homework Assignment # 3</u></b> Review for Exam #2
1 October 2019	<b><u>Exam #2 – Chapters 4 &amp; 5</u></b> Meteorology for Pilots Chapter 6 Sections A, B & C Handout Homework Packet #2 (4-5-6)
8 October 2019	Interpreting Weather Data Chapter 7 Sections A, B, C & D <b>Exercise:</b> Weather Forecast Decoding <b><u>Turn in Homework Assignment # 4</u></b>
15 October 2019	Federal Aviation Regulations ... <i>Bring FAR/AIM tonight!</i> ... FAR Parts 1, 61, and 91 NTSB Part 830 <b><u>Turn in Homework Assignment # 5</u></b> Review for Exam #3

**TOPICAL OUTLINE/COURSE SCHEDULE/HOMEWORK ASSIGNMENTS:  
(Continued)**

<b>Date</b>	<b>Course Schedule</b>
<b>22 October 2019</b>	<b><u>Exam #3 – Chapters 6 – 7 &amp; FAR</u></b> Aircraft Performance Chapter 8 Section A <b>Exercise:</b> Reading Performance Charts <b><u>Turn in Homework Assignment # 6</u></b> Handout Homework Packet #3 (7-8-9-10)
<b>29 October 2019</b>	Weight and Balance Chapter 8 Section B <b>Exercise:</b> Calculating Weight and Balance Flight Computers <i>... Bring your flight computer tonight! ...</i> Chapter 8 Section C <b><u>Turn in Homework Assignment # 7</u></b> Review for Exam #4
<b>5 November 2019</b>	<b><u>Exam #4 – Chapter 8</u></b> Applying Human Factors Principles Chapter 10 Sections A & B <b><u>Turn in Homework Assignment # 8</u></b>
<b>12 November 2019</b>	Navigation Chapter 9 Sections A, B, C & D Flying Cross Country <i>... Bring flight computer &amp; plotter tonight! ...</i>
<b>19 November 2019</b>	Chapter 11 Sections A & B Navigation Demo/Performance <b>Exercise:</b> Navigation & Cross Country <b><u>Turn in Homework Assignment # 9</u></b> Review for Exam #5
<b>26 November 2019</b>	Finish Navigation & Cross Country <b><u>Exam # 5 – Chapters 9 &amp; 10</u></b> <b><u>Turn in all Homework Assignments</u></b>
<b>3 December 2019</b>	<b>FAA PAR Test Review</b> Review for Final Exam
<b>10 December 2019</b>	<b><u>Private Pilot Final Exam A</u></b>  <i>Bring Your Logbook!!!</i>