

Course Code: AVI 101

Course Title: Private Pilot I

Department: Aviation

Effective Date: Summer 2026

PCS Code: 1.1 - Baccalaureate/Transfer

CIP Code: 14.0101

Repeatability: 0

Credit Hours

Catalog Notation: 2-2-3

Credit Hour Distribution:

Lecture: 2

Lab: 2

Clinical: 0

Total: 3

General Course Information

Catalog Description

First in a two-course sequence for FAA Private Pilot certification. Course goal is solo flight. Aerodynamics, aircraft systems, operations, regulations, weather, and flight maneuvers. Includes 29.7 hours flight and simulator training.

General Course Objectives

Develop the knowledge and proficiency required to operate an airplane in solo flight.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 060

Prerequisites

Admission into the Aviation program

Methods of Evaluation

Evaluation will consist of written assignments, quizzes, exams, oral questioning, and observation of flight performance.

Instructional Materials and Additional Supplies

[Airplane Flying Handbook](#), FAA, Current edition

[Pilot's Handbook of Aeronautical Knowledge](#), FAA, Current edition

[Federal Aviation Regulations and Aeronautical Information Manual \(FAR/AIM\)](#), FAA, Current edition

Cost of aircraft use is covered by course fees.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Ground Lesson 1: Engines, Systems, Instruments, Emergencies	1. Identify the functions and use of aircraft flight and power plant instruments, and the normal and abnormal operations of aircraft systems.	2.5	0	0
Ground Lesson 2: Aerodynamics	1. Demonstrate knowledge of basic aircraft terminology and aerodynamic theory.	3	0	0
Ground Lesson 3: Basic Flight Maneuvers	1. Demonstrate proficiency in the function and use of aircraft flight control systems, instrument indications, and the basic maneuvers of flight.	1	0	0
Ground Lesson 4: Airport Operations, Airspace, Charts	1. Demonstrate knowledge of all procedures and radio communications for ground and flight operation at control tower airports. 2. Explain the National Airspace System and local airspace structure and their requirements.	3	0	0
Ground Lesson 5: Hourly Exam 1	1. Acquire knowledge that can be integrated with the content of lessons 1 through 3.	2	0	0
Ground Lesson 6: Slow Flight, Stalls, Spin Awareness, Ground Reference Maneuvers	1. Demonstrate knowledge of flight at critically slow airspeeds and elementary ground reference maneuvers.	1.5	0	0
Ground Lesson 7: Traffic Patterns, Normal and Crosswind Takeoffs and Landings, Go-Arounds	1. Acquire knowledge necessary for normal and crosswind takeoff and landing procedures.	2	0	0
Ground Lesson 8: Non-Tower Airport Operations, Traffic Patterns	1. Identify recommended operating practices at non-tower airports and handling non-mechanical related emergencies.	2	0	0
Ground Lesson 9: Hourly Exam 2	1. Acquire knowledge that can be integrated with the content of lessons 4 through 8.	2	0	0
Ground Lesson 10: Regulations	1. Demonstrate proficiency with pertinent sections of 14 CFR Parts 43, 61, and 91, as well as National Transportation Safety Board Part 830.	2	0	0
Ground Lesson 11: Airplane Performance Charts	1. Demonstrate knowledge and use of aircraft performance data available in the owner's handbook and/or airplane flight manuals. 2. Understand the effects of various atmospheric conditions on aircraft performance.	2	0	0
Ground Lesson 12: Hourly Exam 3	1. Acquire knowledge that can be integrated with the content of lessons 10 through 11.	2	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Ground Lesson 13: Airplane Weight and Balance	1. Demonstrate knowledge and use of the aircraft weight and balance data available in the owner's handbook and/or airplane flight manual.	2	0	0
Ground Lesson 14: Weather Briefings and Information	1. Demonstrate proficiency with methods for obtaining weather briefings and weather information.	1	0	0
Ground Lesson 15: Final Exam	1. Acquire knowledge that can be integrated with the content of lessons 1 through 14.	2	0	0
Flight Lesson 1: Airplane and Flight Familiarization	1. Demonstrate knowledge of the content items listed: sensations of flight, use of checklists, cockpit controls, instruments, radio communication, and the local area using a sectional chart. 2. Gain proficiency controlling aircraft attitude, altitude, and airspeed using attitude flight by reference to the horizon.	0	1.3	0
Flight Lesson 2: Aircraft Familiarization	1. Gain proficiency in the fundamental skills of aircraft control. These skills include the necessary tasks to take the aircraft from parking ramp to the local practice area and the use of aircraft checklists, cockpit controls, flight instruments, and the communications radios. 2. Gain proficiency controlling aircraft attitude, altitude, and airspeed using attitude flight by reference to the horizon. 3. Explore relationships between pitch, power, altitude, and airspeed.	0	1.3	0
Flight Lesson 3: Aircraft Control	1. Gain proficiency in the fundamental skills of aircraft control. These skills include the necessary tasks to take the aircraft from parking ramp to the local practice area and the use of aircraft checklists, cockpit controls, flight instruments, and the communications radios. 2. Gain proficiency in control coordination in turning flight. 3. Gain proficiency in attitude flight by reference to the horizon.	0	1.3	0
Flight Lesson 4: Review, Instrument Orientation	1. Demonstrate proficiency in aural, kinesthetic, and vestibular cues and acquire skills in how to fly the aircraft solely by reference to instruments. 2. Gain proficiency in attitude flight solely by reference to instruments.	0	1	0
Flight Lesson 5: Critically Low Air-Speed, Stalls	1. Gain proficiency in varying airspeed in level flight in various attitudes and configurations. 2. Gain proficiency in recognition of imminent and full stalls, power-on and -off, and how to accomplish prompt, positive, and effective recovery in all normally anticipated situations. 3. Gain proficiency responding to selected emergencies. 4. Gain proficiency in attitude flight solely by reference to instruments.	0	2	0
Flight Lesson 6: Stalls, VOR, GPS, Ground Reference	1. Gain proficiency in recognition and recovery from stalls, VOR orientation and tracking, GPS orientation and operation, steep turns, and engine failures during cruising flight. 2. Gain proficiency in compensating for the effect of wind to maintain a desired straight or turning ground track. 3. Gain proficiency in attitude flight solely by reference to instruments.	0	2	0
Flight Lesson 7: Non-tower Airport, Takeoff and Landing	1. Gain proficiency in operation at airports with control towers and in repeated takeoffs and landings. 2. Gain proficiency in attitude flight solely by reference to instruments.	0	1.6	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Flight Lesson 8: Review, Takeoffs, and Landings	<ol style="list-style-type: none"> 1. Gain proficiency in attitude flight by reference to the horizon and flight instruments. 2. Gain proficiency integrating aural, kinesthetic, and vestibular cues to improve the accuracy of control. 3. Gain proficiency in performing repeated takeoffs and landings. 	0	2	0
Flight Lesson 9: Takeoffs and Landings, Emergency Procedures	<ol style="list-style-type: none"> 1. Demonstrate proficiency in performing repeated takeoffs and landings. 2. Demonstrate proficiency in responding to simulated emergencies including engine failure in the practice area. 	0	2.5	0
Flight Lesson 10: Takeoffs and Landings, Night Operations	<ol style="list-style-type: none"> 1. Gain proficiency in performing repeated takeoffs and landings at night. Perform at least five takeoffs and landings to a full stop at night. 2. Demonstrate proficiency in responding to simulated emergencies including engine failure in the practice area. 	0	2.5	0
Flight Lesson 11: Takeoffs and Landings, Ground Reference	<ol style="list-style-type: none"> 1. Demonstrate proficiency in performing ground reference maneuvers and attitude flight solely by reference to instruments. 2. Gain proficiency in performing takeoffs and landings in the presence of a crosswind. 	0	4.7	0
Flight Lesson 12: Proficiency	<ol style="list-style-type: none"> 1. Demonstrate proficiency in performing stalls, slow flight, steep turns, emergency procedures, takeoffs and landings, and attitude flight solely by reference to instruments. 	0	2.5	0
Flight Lesson 13: Solo	<ol style="list-style-type: none"> 1. Operate the aircraft in solo flight. 	0	2	0
Flight Lesson 14: Review	<ol style="list-style-type: none"> 1. Demonstrate proficiency in performing stalls, slow flight, steep turns, emergency procedures, takeoffs and landings, and attitude flight solely by reference to instruments, and use of the GPS Direct function. 2. Demonstrate proficiency in performing normal and crosswind takeoffs and landings, no-flap landings, ground reference maneuvers, and go-around. 	0	2	0
Flight Lesson 15: Stage Check	<ol style="list-style-type: none"> 1. Demonstrate proficiency in all maneuvers learned in the course by passing a stage check in the airplane. 	0	1.3	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	30	0