

AV 110 : PRIVATE PILOT - AIRPLANE

Transcript title

Private Pilot - Airplane

Credits

5

Grade mode

Standard letter grades

Contact hours total

50

Lecture hours

50

Recommended preparation

MTH 060 or higher or minimum placement Math Level 10.

Description

Provides initial ground instruction in aeronautical skills and knowledge for the FAA Private Pilot certificate. Involves an introduction to fundamentals of flight, aerodynamics, flight operations, airspace, weather and weather products, flight planning, decision-making, human factors, human factors in aviation, and crew resource management. Comprehensive course that prepares student for the FAA Private Pilot airman knowledge written exam.

Learning outcomes

1. Develop understanding of fundamental concepts of airplane powered flight.
2. Understand the aircraft power-plant, aircraft systems, and flight instruments.
3. Understand essential aeronautical and aerodynamic concepts.
4. Demonstrate knowledge of basic weather theory, weather forecasting, and weather products available to the pilot.
5. Develop fundamental knowledge of aircraft performance.
6. Demonstrate the basic tasks of navigation and flight planning.
7. Demonstrate familiarity with aviation charts, airfield directories, and other aviation publications.
8. Develop comprehension of the flight environment, airport operations, safety of flight, and human factors in aviation.
9. Demonstrate an understanding of the Federal Aviation Regulations.
10. Apply flight concepts to pilot training, and have the knowledge to operate safely in today's complex flight environment.
11. Demonstrate preparedness for FAA Private Pilot exam.
12. Demonstrate preparedness for the FAA Private Pilot ground evaluation.

Content outline

Flight Lab Process
Aeronautical Decision Making
Fitness for Flight
Flight Instruments
Aircraft Systems

Aerodynamics
Airport Operations Communication
Aircraft Performance
Weight Balance
Weather Theory
Weather Charts Services
Navigation - Pilotage Sectional Charts, VOR GPS, Dead Reckoning, Flight Planning

Required materials

Requires textbook and/or online learning materials, and additional equipment.

Grading methods

This course is assessed through participation, in-class activities, exams, and a final exam.