



THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Private Pilot Fundamentals

AVIATN 2100

Credit Hours:

5.00 - 5.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture

Course Description:

Study of flight fundamentals, aircraft operations, weather, and regulations required for Private Pilot certification. This course is conducted under Federal Aviation Administration Regulations Part 141.

Course Goals / Objectives:

- Demonstrate understanding of flight dynamics, aircraft properties, navigation, weather, and regulations.
 - Perform flight planning calculations involving distance, range, fuel, and time.
 - Gain knowledge of aviation regulations as they relate to pilots, aircraft, airspace, and airports.
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Course Topics:

- Aircraft and Aerodynamics
 - Flight Maneuvers
 - Engines and Systems
 - Weight and Balance
 - Navigation
 - Weather
 - Airports, Lighting and Markings
 - Aviation Charts
 - Radio Communication Procedures
 - Airspace
 - Instruments
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Designation:
Required