

# AV 220 : COMMERCIAL PILOT-AIRPLANE

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## Transcript title

Commercial Pilot-Airplane

## Credits

4

## Grading mode

Standard letter grades

## Total contact hours

40

## Lecture hours

40

## Prerequisites

AV 110 (or Private Pilot Certificate).

## Course Description

Provides ground instruction of aeronautical skills and knowledge applicable to the FAA Commercial Pilot Certification portion of the Professional Pilot training syllabus. Covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex and multi-engine aircraft operations, advanced airplane systems, commercial operations, and FAA Regulations for commercial pilots and noncommercial flight operations with emphasis on human factors, crew resource management, and decision making.

## Course learning outcomes

1. Develop commercial pilot level understanding of flight instruments, weather, performance, systems, Federal Aviation Regulations (FARs), and cross-country planning as they relate to commercial flight operations.
2. Summarize the test standards and information in order to pass the FAA Commercial Pilot written knowledge exam.
3. Describe and apply principles of flight in multi-engine airplanes.

## Content outline

Weather Concepts Aircraft Systems Airport Operations Procedures  
Airport Facility Directory Weather Services Commercial Flight  
Considerations Advanced Human Factors Concepts Flight Instruments  
Aerodynamics Weight Balance Aircraft Performance Common Carriage  
FAA Regulations Navigation

## Required materials

Requires textbook and/or online learning materials.