

Course Code: AVI 209

Course Title: Commercial Pilot II

Department: Aviation

Effective Date: Summer 2026

PCS Code: 1.1 - Baccalaureate/Transfer

CIP Code: 14.0101

Repeatability: 0

Credit Hours

Catalog Notation: 2-3-3

Credit Hour Distribution:

Lecture: 2

Lab: 3

Clinical: 0

Total: 3

General Course Information

Catalog Description

Second in a two-course sequence for FAA Commercial Pilot certification. Advanced aerodynamics, advanced systems, regulations, review of certification standards, and multiengine airplane introduction. Includes 44.7 hours flight and simulator training.

General Course Objectives

Develop the knowledge and proficiency required to earn a Commercial Pilot certificate.

Minimum Placement Levels

English

None

Reading

None

Math

None

Prerequisites

Credit in AVI 200

Methods of Evaluation

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.

Commercial Pilot FAA Knowledge Test Prep, 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 76: Advanced Aerodynamics | 1. Understand selected aerodynamics topics including four forces, turning tendencies, aileron yaw, slips, skids, stalls, and spins. | 2 | 0 | 0 |
| Ground Lesson 77: Advanced Aerodynamics | 1. Understand selected aerodynamics topics including load factor and stability. | 3 | 0 | 0 |
| Ground Lesson 78: Commercial Pilot Certification Standards | 1. Understand commercial pilot ACS topics including preflight preparation, preflight procedures, and airport operations. | 3 | 0 | 0 |
| Ground Lesson 79: Commercial Pilot Certification Standards | 1. Understand commercial pilot ACS topics including takeoffs, landings, and go-arounds. | 2 | 0 | 0 |
| Ground Lesson 80: Commercial Pilot Certification Standards | 1. Understand commercial pilot ACS topics including performance and ground reference maneuvers, navigation, slow flight and stalls, and emergency operations. | 2 | 0 | 0 |
| Ground Lesson 81: Aeronautical Decision- Making | 1. Understand selected aeronautical decision-making topics including hazardous attitudes and the decision-making process. | 2 | 0 | 0 |
| Ground Lesson 82: Aircraft Systems | 1. Understand principles of piston-engine components, lubrication, and cooling. 2. Understand principles of airplane turbine-engines including types, advantages, and limitations. | 1 | 0 | 0 |
| Ground Lesson 83: Aircraft Systems | 1. Understand principles and operation of fuel systems, fuel metering systems, and induction systems. | 1 | 0 | 0 |
| Ground Lesson 84: Aircraft Systems | 1. Understand principles and operation of propeller, hydraulic, and landing gear systems. | 2 | 0 | 0 |
| Ground Lesson 85: Aircraft Systems | 1. Understand principles and operation of piston-engine airplane electrical systems. | 1 | 0 | 0 |
| Ground Lesson 86: Aircraft Systems | 1. Understand principles and operation of turbocharging and environmental systems. 2. Understand principles and operation of airplane pressurization, oxygen, and icing protection systems. | 1 | 0 | 0 |
| Ground Lesson 87: Federal Aviation Regulations | 1. Understand selected regulations governing commercial pilot operations including 14 CFR parts 43, 61, 91, 119, and 135, and 49 CFR parts 830 and 1552. | 4 | 0 | 0 |
| Ground Lesson 88: Multiengine Aerodynamics | 1. Understand selected multiengine aerodynamics topics including V-speeds and performance. | 2 | 0 | 0 |

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|---|---|----------------------|------------------|-----------------------|
| Ground Lesson 89: Multiengine Systems and Procedures | <ol style="list-style-type: none"> 1. Understand selected procedures applicable to light multiengine airplanes including actions in the event of engine failure during takeoff, after takeoff, and enroute. 2. Understand selected systems applicable to light multiengine airplanes including propeller, landing gear, fuel, electrical, stall warning, and environmental. | 2 | 0 | 0 |
| Ground Lesson 90: Review and Final Exam | <ol style="list-style-type: none"> 1. Demonstrate achievement of objectives for ground lessons 76 through 89 lesson outcomes through testing. | 2 | 0 | 0 |
| Flight Lesson 76: IFR and Night Review | <ol style="list-style-type: none"> 1. Review instrument procedures including holding, DME arc, instrument approach, and missed approach. | 0 | 2.5 | 0 |
| Flight Lesson 77: AATD Training | <ol style="list-style-type: none"> 1. Review instrument procedures in the Advanced Aviation Training Device (AATD). | 0 | 6 | 0 |
| Flight Lesson 78: IFR Solo Cross-Country Flights | <ol style="list-style-type: none"> 1. Complete at least 14 hours in solo IFR cross-country flight. For each flight, file an IFR flight plan and operate on an IFR clearance for each segment between airports. | 0 | 15 | 0 |
| Flight Lesson 79: Commercial Maneuvers | <ol style="list-style-type: none"> 1. Build proficiency in selected commercial pilot tasks including slow flight, stalls, steep turn, traffic patterns, takeoff, and landing. | 0 | 2 | 0 |
| Flight Lesson 80: Commercial Maneuvers | <ol style="list-style-type: none"> 1. Build proficiency in selected commercial pilot tasks including short-field and soft-field takeoff and landing, power-off 180-degree accuracy approach and landing, steep spiral, chandelle, lazy eight, and eights on pylons. | 0 | 2 | 0 |
| Flight Lesson 81: Commercial Maneuvers | <ol style="list-style-type: none"> 1. Build proficiency in commercial pilot tasks reviewed from lessons 79 and 80. 2. Build proficiency in crossed-control stall, elevator trim stall, and secondary stall. | 0 | 1.5 | 0 |
| Flight Lesson 82: Commercial Maneuvers | <ol style="list-style-type: none"> 1. Build proficiency in commercial pilot tasks reviewed from lessons 79 and 80. | 0 | 1.5 | 0 |
| Flight Lesson 83: Commercial Maneuvers | <ol style="list-style-type: none"> 1. Build proficiency in commercial pilot tasks reviewed from lessons 79 and 80. 2. Build proficiency managing system and equipment malfunctions including powerplant, flight instrument, and flight control malfunctions. | 0 | 1.5 | 0 |
| Flight Lesson 84: Day VFR Cross-Country Flight | <ol style="list-style-type: none"> 1. Demonstrate proficiency in pilotage, dead reckoning, fuel management, radio navigation and radar services, diversion, and lost procedures. 2. File, open, and close a VFR flight plan for each leg of the flight. | 0 | 2.5 | 0 |
| Flight Lesson 85: Maneuver Review | <ol style="list-style-type: none"> 3. Build proficiency in performing commercial pilot tasks reviewed from lessons 79 and 80, and in managing malfunctions reviewed from lesson 83. | 0 | 2 | 0 |
| Flight Lesson 86: Maneuver Review | <ol style="list-style-type: none"> 1. Build proficiency in performing commercial pilot tasks reviewed from lessons 79 and 80, and in managing malfunctions reviewed from lesson 83. 2. Complete an optional VFR dual cross-country flight with any route in the course syllabus. File, open, and close a VFR flight plan for each leg of the flight. | 0 | 2 | 0 |
| Flight Lesson 87: Maneuver Review | <ol style="list-style-type: none"> 1. Build proficiency in performing commercial pilot tasks reviewed from lessons 79 and 80, and in managing malfunctions reviewed from lesson 83. | 0 | 1.5 | 0 |

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|--|---|----------------------|------------------|-----------------------|
| Flight Lesson 88: Practice End-of-Course Test | 1. Take a practice commercial pilot end-of-course test. | 0 | 1.5 | 0 |
| Flight Lesson 89: Maneuver Review | 1. Demonstrate proficiency in performing commercial pilot tasks reviewed from lessons 79 and 80, and in managing malfunctions reviewed from lesson 83. 2. Review tasks identified in lesson 88 as requiring increased proficiency. | 0 | 1.7 | 0 |
| Flight Lesson 90: End-of-Course Test | 1. Take the commercial pilot end-of-course test. | 0 | 1.5 | 0 |

Total Contact Hours

| Lecture Hours | Lab Hours | Clinical Hours |
|----------------------|------------------|-----------------------|
| 30 | 44.7 | 0 |