

Course Code: AVI 280

Course Title: Commercial Multiengine

Department: Aviation

Effective Date: Summer 2026

PCS Code: 1.1 - Baccalaureate/Transfer

CIP Code: 14.0101

Repeatability: 0

Credit Hours

Catalog Notation: 0.5-1-1

Credit Hour Distribution:

Lecture: 0.5

Lab: 1

Clinical: 0

Total: 1

General Course Information

Catalog Description

Add Airplane Multiengine Land rating to FAA Commercial Pilot certificate. Aerodynamics, systems, and procedures applicable to light twin engine airplanes. Includes 20 hours flight and simulator training.

General Course Objectives

The student will obtain the necessary aeronautical knowledge to meet or exceed the requirements specified in 14 CFR Part 141 of the Federal Aviation Regulations.

Minimum Placement Levels

English

None

Reading

None

Math

None

Prerequisites

FAA Commercial Pilot Certificate with Airplane Single Engine Land and Instrument Airplane Ratings

Methods of Evaluation

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

Instructional Materials and Additional Supplies

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

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 91: End-of-Course Test Oral Preparation | 1. Demonstrate adequate knowledge to pass the Additional Airplane Multiengine Land rating oral exam using the Commercial Pilot ACS and Additional Aircraft Rating Exam Guide as references. | 10 | 0 | 0 |
| Flight Lesson 92: Introduction to Multi-Engine Procedures | 1. Gain proficiency in performing multiengine airplane preflight inspection and selected introductory flight maneuvers. | 0 | 2 | 0 |
| Flight Lesson 93: Introduction to Single-Engine Operations | 1. Gain proficiency in performing multiengine airplane preflight inspection and selected introductory flight maneuvers. 2. Gain proficiency in responding to an inoperative engine in flight and in performing the Vmc demonstration maneuver. | 0 | 2 | 0 |
| Flight Lesson 94: Day IFR Cross-Country Flight | 1. Demonstrate proficiency in IFR procedures by completing a daytime IFR cross-country flight to a selected destination. 2. Complete 2-hour cross country flight during daytime conditions as required by Part 141 Appendix I. | 0 | 2 | 0 |
| Flight Lesson 95: Systems Management, Instrument Flight | 1. Gain proficiency in responding to an inoperative engine and in performing instrument approaches. | 0 | 5 | 0 |
| Flight Lesson 96: Night IFR Cross-Country Flight | 1. Demonstrate proficiency in IFR procedures by completing a night IFR cross-country flight to a selected destination. 2. Complete 2-hour cross country flight during nighttime conditions as required by Part 141 Appendix I. | 0 | 2 | 0 |
| Flight Lesson 97: Single-Engine, Short Field Takeoff/Landing | 1. Gain proficiency in short-field operations, emergency operations, and multiengine operations. | 0 | 2 | 0 |
| Flight Lesson 98: Review | 1. Demonstrate adequate proficiency to pass the Additional Airplane Multiengine Land rating flight exam using the Commercial Pilot ACS and Additional Aircraft Rating Exam Guide as references. | 0 | 3 | 0 |
| Flight Lesson 99: Solo | 1. Safely operate the multiengine aircraft in solo flight. | 0 | 0.5 | 0 |
| Flight Lesson 100: End-of-course Test | 1. Successfully complete the end-of-course test. | 0 | 1.5 | 0 |

Total Contact Hours

| Lecture Hours | Lab Hours | Clinical Hours |
|---------------|-----------|----------------|
| 10 | 20 | 0 |