PARKLAND COLLEGE

Course Information Form (CIF)

Course Code: ALV 221

Course Title: Flight Instructor Ground Supplemental

Department: Aviation
PCS Code: 1.6 - Vocational Skills
CIP Code: 49.0102
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 3-0-3
Credit Hour Distribution:

Lecture: 3	Lab: 0	Clinical: 0	**Total: 3**

General Course Information

Catalog Description

Remedial instruction for the classroom portion of AVI 220.

General Course Objectives

Build knowledge to the level required to pass the Fundamentals of Instruction and Flight Instructor Airplane knowledge tests and AVI 220 end-of-course test.

Minimum Placement Levels

English	Reading	Math
None	None	None

Prerequisites

None

Methods of Evaluation

Written assignments, oral presentations, quizzes, and exams.

Instructional Materials and Additional Supplies

Aviation Instructor's Handbook, FAA. Current edition.
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.
Flight Instructor Airplane FAA Knowledge Test preparation course, 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 1: Fundamentals of Instructing	1. Demonstrate knowledge of the fundamentals of instructing: the learning process, human behavior, and effective communication.	3	0	0
Ground Lesson 2: Fundamentals of Instructing	1. Demonstrate knowledge of the fundamentals of instructing: teaching methods, critique and evaluation, flight instructor characteristics and responsibilities, and planning instructional activities.	3	0	0
Ground Lesson 3: Fundamentals of Flight	1. Demonstrate instructional knowledge of the fundamentals of flight including straight-and-level flight, level turns, straight climbs and climbing turns, and straight descents and descending turns.	3	0	0
Ground Lesson 4: Technical Subject Areas	1. Demonstrate instructional knowledge of the following technical subject areas: aeromedical factors, visual scanning and collision avoidance, airplane flight controls, and principles of flight.	3	0	0
Ground Lesson 5: Technical Subject Areas	1. Demonstrate instructional knowledge of the following technical subject areas: airplane weight and balance, navigation, and flight planning.	3	0	0
Ground Lesson 6: Technical Subject Areas	1. Demonstrate instructional knowledge of the following technical subject areas: night operations, high altitude operations, national airspace system, navigation systems, and radar services.	3	0	0
Ground Lesson 7: Technical Subject Areas	1. Demonstrate instructional knowledge of the following technical subject areas: federal aviation regulations and publications, logbook entries, and certificate endorsements.	3	0	0
Ground Lesson 8: Preflight Preparation	1. Demonstrate instructional knowledge of preflight preparation including the following: certificates and documents, weather information, and operations of systems.	3	0	0
Ground Lesson 9: Preflight Procedures	1. Demonstrate instructional knowledge of preflight preparation and preflight procedures including the following: performance and limitations, airworthiness requirements, preflight inspection, single-pilot crew resource management, taxiing, and before-takeoff check.	3	0	0
Ground Lesson 10: Airport Operations and Takeoffs	1. Demonstrate instructional knowledge of airport operations and takeoffs including the following: radio communication and ATC light signals; traffic patterns; airport, runway, and taxiway signs, markings, and lighting; normal and crosswind takeoffs and climb; short-field takeoff and maximum performance climb; and soft-field takeoff and climb.	3	0	0
Ground Lesson 11: Stalls and Spins	1. Demonstrate instructional knowledge of stall awareness, stalls, spin recognition, and entry and recovery including the following areas: maneuvering during slow flight, power-off stalls, power-on stalls, crossed-control stalls, elevator trim stalls, secondary stalls, accelerated maneuver stalls, aerodynamics of spins, spin entry, spin recovery, and aircraft capabilities and limitations.	3	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Ground Lesson 12: Ground Reference Maneuvers, Performance Maneuvers	1. Demonstrate instructional knowledge of ground reference maneuvers and performance maneuvers including the following: steep turns, sleep spirals, chandelles, lazy eights, rectangular course, S-turns across a road, turns around a point, and eights on pylons.	3	0	0
Ground Lesson 13: Landings, Go-Around, Postflight	1. Through student teaching presentations, demonstrate instructional knowledge of landings, go-arounds, and post-flight procedures including the following: normal and crosswind approach and landing, slip to a landing, go around, short field approach and landing, power-off 180° accuracy approach and landing, and postflight procedures.	3	0	0
Ground Lesson 14: Emergency Operations	1. Demonstrate instructional knowledge of emergency operations including the following: emergency approach and landing, systems and equipment malfunctions, emergency equipment and survival gear, and emergency descent.	3	0	0
Review	1. Demonstrate readiness to successfully complete the oral portion of the Flight Instructor Airplane end-of-course test.	3	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
45	0	0