

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

Transfer course A.A. degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: Aeronautical Sciences 108
Flight Instructor Ground School

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: Aeronautical Sciences 106 and 107.

COREQUISITE: None.

RECOMMENDED PREPARATION: None.

SCOPE OF COURSE:

Learning characteristics, teaching techniques, student evaluation, instructor duties/responsibilities, and all private and commercial pilot maneuvers. Prepares the student for the Federal Aviation Administration's written and practical tests for flight instructor -airplane.

SPECIFIC COURSE OBJECTIVES:

Upon satisfactory completion of this course, the successful student will be able to:

1. Apply principles learned to take the F.A.A. Flight Instructor Basic and Airplane Written exams with a minimum score of 70%.
2. Apply principles learned to take the verbal portion of the F.A.A. Practical Test for Flight Instructor Airplane.
3. Analyze and explain all private and commercial pilot flight maneuvers.
4. Anticipate common problems which a flight instructor might encounter with a student and synthesize possible solutions to these problems.
5. Identify the teaching/learning process as it applies to flight instruction.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. The learning process
 - A. Barriers to learning
 - B. Human behavior and effective communication
- II. Aviation instruction overview
 - A. Teaching methods
 - B. Testing and evaluating
- III. Flight instructor responsibilities
 - A. F.A.A. Regulations
 - B. Accepted industry practices
 - C. Flight school policies
- IV. Techniques of flight instruction
 - A. Planning instructional activity
 - B. Preparing lesson plans
 - C. Verbal presentations
 - D. Critique of student performance
- V. Airplanes and aerodynamics
- VI. Airplane performance
- VII. Airplane instruments, engines, and systems
- VIII. Airports, airspace, and ATC
- IX. Weight and balance
- X. Weather
- XI. Federal aviation regulations
 - A. Part 1
 - B. Part 61
 - C. Part 91
- XII. Navigation
- XIII. Flight maneuvers
 - A. Private maneuvers
 - B. Commercial maneuvers
- XIV. Flight physiology

REQUIRED READING:

- Federal Aviation Administration. Airman's Information Manual. Washington, D.C.: United States Government Printing Office, 2000.
- Federal Aviation Administration. Federal Aviation Regulations Parts 1, 61, & 91. Washington, D.C.: United States Government Printing Office, 1999.
- Gleim, Irwin. Fundamentals of Instruction Question Book. Gainesville, Florida: Aviation Publications, 2000.
- Gleim, Irwin. Flight Instructor Airplane Question Book. Gainesville, Florida: Aviation Publications, 2000.
- Federal Aviation Administration. Flight Training Handbook. AC 61 - 21B. Washington, D.C.: United States Government Printing Office, 1999.

SUGGESTED READING:

Federal Aviation Administration. Part 61 & 91 Advisory Circulars. Washington, D.C.: United States Government Printing Office, miscellaneous years.

REQUIRED WRITING:

Students will be required to write a set of lesson plans for training a private pilot. Each lesson plan to be one page in length, total of 10 lesson plans required.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Study of assignments in required readings, study of lecture notes and preparation of required lesson plans.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply.

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

4 tests =	60% of course grade
10 lesson plans =	20% of course grade
Role playing/discussion =	20% of course grade

Students with: 90 - 100 % average will receive A
 80 - 89 % average will receive B
 70 - 79 % average will receive C
 60 - 69 % average will receive D
 below 60 % average will receive F

These percentages may be adjusted according to overall class performance.

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes ___ No X Number of times course may be taken for credit: 1

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

CONTACT PERSON:

Jerry Houser, ext. 2518

SIGNATURES:

SIGNATURES ON FILE