

**PALOMAR COLLEGE**  
**COURSE OUTLINE OF RECORD FOR**  
**DEGREE CREDIT COURSE**

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

**COURSE NUMBER AND TITLE:** AERONAUTICAL SCIENCES 110  
Basic Pilot Flight Procedures

**UNIT VALUE:** 2

**MINIMUM NUMBER OF SEMESTER HOURS:** 32

**BASIC SKILLS REQUIREMENTS:** Appropriate language skills

**ENTRANCE REQUIREMENTS:**

**PREREQUISITE:** Completion of, or concurrent enrollment in,  
Aeronautical Sciences 105.

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:**

A classroom study of procedures required for the private pilot practical test. Includes discussion of cross-country flight planning, radio navigation, communication procedures, controlled airspace, and airport operations.

**SPECIFIC COURSE OBJECTIVES:**

Upon completion of this course, successful students will be able to:

1. explain the operational considerations of controlled airspace as well as the minimum weather conditions for visual flight.
2. identify features of the segmented circle and describe the traffic patterns and runway usage at an airport.
3. anticipate communications from a control tower or radar facility and apply principles learned to describe the appropriate pilot actions.
4. justify routes selected for making flights to other airports and be able to identify the time and fuel required for such a flight.
5. explain the radio frequencies needed for flights through controlled airspace as well as where to obtain them.

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

- Unit I.
- A. Private Pilot Flight Maneuvers
  - B. Airspace & VFR Flight
  - C. Radio Procedures
  - D. Clearances & Pilot-Controller Roles
  - E. Emergency Procedures

- Unit II. A. Radar  
B. Services Available to Pilots  
C. Preflight & Flight Plans  
D. Flight Planning  
1. Use of computer & plotter  
2. Use of planning sheet  
3. Use of Airport/Facilities Directory  
4. Use of Graphic Notices  
5. Communications in controlled airspace  
6. Communications (tower, ground, clearance delivery)  
7. Emergency Procedures

**REQUIRED READING:**

Federal Aviation Administration. Aeronautical Information Manual.  
Washington, D.C.: U.S.G.P.O., 1999.  
Federal Aviation Administration. Airport Facility Directory.  
Southwest U.S. Region. Washington, D.C.: U.S.G.P.O., 1999.

**SUGGESTED READING:**

Handouts provided by the Federal Aviation Administration on current procedures for private pilots.

**REQUIRED WRITING:**

None. Problem solving exercises involving charts, a plotter, and a computer are more appropriate.

**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 classroom notes, readings in textbooks, writing of paper.

**INSTRUCTIONAL METHODOLOGY:**

At a minimum, specify lecture, laboratory, lecture-laboratory combination, or directed study. You may add a statement.

**Check all that apply:**

- lecture  
 laboratory  
 lecture-laboratory combination  
 directed study

Lecture, films, video tapes, discussion, flight planning practice.

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378 and 55380. Yes\_\_\_ No\_X

**If yes, check all that apply:**

\_\_\_\_\_ telecourse (Course is taught by televised lessons not under direct supervision of an instructor. usually some on campus lecture/discussion session are required.)

\_\_\_\_\_ mediated instruction (Instruction is by audio-visual means in various combinations. Usually conducted in a learning resources center not under immediate supervision of a qualified instructor.)

**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 for determining whether the stated objectives have been met by students):

2 tests & a final exam. The 3 items will be averaged (each will count as 1/3 of the course grade).

**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 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable.

**CONTACT PERSON:**

Jerry Houser  
(760) 744-1150 Ext. 2518

SIGNATURES ON FILE
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