

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 SCIENCE 125
Instrument Simulator Lab

UNIT VALUE: 1.5

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate language and computational skills.

ENTRANCE REQUIREMENTS:

PREREQUISITE: Private Pilot Certificate

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Instrument flight including VOR navigation, holding patterns, and ILS, LOC, and VOR approaches through use of a ground trainer.

SPECIFIC COURSE OBJECTIVES:

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

1. maintain headings and altitudes within 10 degrees and 100 feet,
2. demonstrate VOR tracking,
3. demonstrate proper entries into holding patterns,
4. demonstrate VOR, LOC, and ILS approaches, and
5. demonstrate missed approaches.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Basic Airwork
 - A. S & L
 - B. Turns
 - C. Climbs/Descents
 - D. Slow Flight
 - E. Steep Turns
 - F. Timed Turns
- II. Radio Navigation
 - A. VOR Tracking
 - B. Finding Intersections
- III. Holding
 - A. At VOR's, and Intersections

VI. Approaches and Missed Approaches

- A. VOR
- B. LOC
- C. ILS

REQUIRED READING:

Federal Aviation Administration. Instrument Flying Handbook.
AC61-27C. Washington, D.C.: United States Government Printing
Office, 1980.
Houser, Jerry. Pilots Operation Manual and Charts. San Marcos, CA:
Palomar College, 1999.

SUGGESTED READING:

None

REQUIRED WRITING:

Skill demonstration of ability to fly approaches and maneuver the simulator is 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.

Reading and study of required readings. Students are expected to spend two hours per week outside of class in preparation for lecture and lab sessions.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

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
- mediated instruction
- computer assisted instruction

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

(Attach additional sheets if necessary)

The final simulator check is 100% of the course grade. The final simulator check ride will be assigned a score - all students start with 100 points and lose points based on the number of errors made during the check ride. A letter grade will be assigned as follows:

- 90 - 100 % = A
- 80 - 89 % = B
- 70 - 79 % = C
- 60 - 69 % = D
- below 60 % = F

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

YES NO Number of times course may be taken for credit 3 .

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

Section 58161. (c) (2) (B)

CONTACT PERSON:

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| SIGNATURES ON FILE |
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