

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 260
ATP/Dispatcher Ground School

UNIT VALUE: 3

MINIMUM NUMBER OF SEMESTER HOURS: 48

BASIC SKILLS REQUIREMENTS:

Appropriate Language and computational skills

ENTRANCE REQUIREMENTS

PREREQUISITE: Commercial Pilot Certificate

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Federal Aviation Regulations, aerodynamics, performance, flight procedures, aviation weather, and aeromedical factors as they apply to the operation and dispatch of air carrier transport aircraft. Prepares the student for the Federal Aviation Administration's Airline Transport Pilot or Dispatcher written/knowledge examination.

SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. analyze and apply Federal Aviation Regulations as they relate to the operation of a commercial air carrier.
2. apply principles of aerodynamics to the operation of air carrier aircraft.
3. solve problems of performance as they relate to air carrier aircraft.
4. apply principles of flight procedures to the operation of high altitude jet aircraft.
5. identify hazardous weather conditions as they apply to high altitude flight.
6. anticipate and pose solutions to problems dealing with aeromedical factors and high altitude flight.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Federal Aviation Regulations
 - A. Part 1
 - B. Part 61
 - C. Part 91
 - D. Part 108
 - E. Part 119
 - F. Part 121
- II. Aerodynamics
- III. Airspace
- IV. Airport operations
- V. Air Traffic Control
- VI. IFR Navigation and equipment
- VII. IFR Holding patterns
- VIII. IFR Approaches
- IX. IFR Enroute navigation
- X. Operating & performance data
 - A. DC-9
 - B. Boeing 737
 - C. Boeing 727
- XI. Aviation Weather
 - A. Terminal area
 - B. High altitude
 - C. Reports
 - D. Forecasts
 - E. Wind shear
- XII. Aeromedical factors

REQUIRED READING:

- Gleim, Irvin. Airline Transport Pilot FAA Written Exam. 3rd edition. Gainesville, FL: Gleim Publications Inc., 1999.
- Federal Aviation Administration. Aeronautical Information Manual. 1999 edition. Washington, DC: United States Government Printing office, 1999.
- Federal Aviation Administration. Federal Aviation Regulations. 1999 edition. Washington, DC: United States Government Printing Office, 1999.

SUGGESTED READING:

- Houser, Jerry. Guide to Aviation Weather Services. 1999 edition. San Marcos, CA: Palomar College, 1999.

REQUIRED WRITING:

None. Problem solving exercises are more appropriate for this course.

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 of textbooks, study of class notes, and solving problems assigned by the instructor.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

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

Lecture, student practice of problems, discussion, and appropriate video tapes.

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

Yes _____ No

If yes, check all that apply. (See guidelines for preparation for definitions.)

- telecourse
- mediated instruction
- computer assisted instruction

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

4 unit exams @ 15% each = 60% of grade
1 final exam @ 40% = 40% of grade

100%

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

Yes _____ No Number of times course may be taken for credit: _____

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

CONTACT PERSON:

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SIGNATURES ON FILE
