

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

XX Transfer Course XX A.A. Degree applicable course  
(check all that apply)

**COURSE NUMBER AND TITLE:**

AERONAUTICAL SCIENCES 100 - Introduction to Aeronautical Sciences

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 48

**BASIC SKILLS REQUIREMENTS:** Appropriate language skills.

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** None

**SCOPE OF COURSE:**

A survey of the aerospace field including the functions and operations of various federal and state regulating aviation agencies and airport based companies such as air carrier, general aviation, aviation maintenance, flight schools and other major occupational and supportive areas.

**SPECIFIC COURSE OBJECTIVES:**

The successful student will be able to:

1. explain the fundamentals of our air transportation system.
2. identify consumer services available from the airline industry.
3. evaluate the importance of air transportation to the public as well as to our national defense.
4. identify the economic benefits provided by our airlines, airports, and aircraft manufacturing.
5. compare and contrast air carrier products and marketing strategies.
6. identify the major governmental agencies who govern air transportation and general aviation in the U.S.
7. explain the early beginnings of our air transportation industry.

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

- Unit 1      Aviation History
  - A.    From early mythology to the present time
  - B.    The development of the airplane
- Unit 2      Development of Air Transportation
  - A.    Importance of air transportation
  - B.    Beginnings of commercial air transportation, domestic and international service
  - C.    Establishment of the airline industry
- Unit 3      Air Transportation Regulations
  - A.    Early efforts, including the airmail service
  - B.    Civil Aeronautics Act - 1938
  - C.    Federal Aviation Act - 1958
  - D.    Department of Transportation - 1966
  - E.    Federal Aviation Administration
  - F.    Civil Aeronautics Board
  - G.    National Transportation Safety Board
  - H.    Airline Deregulation Act - 1978
- Unit 4      Administration of Air Transportation
  - A.    Air carrier management and organization
  - B.    Economics of route structure and fares
  - C.    Airline operations (types of service, scheduling, legal aspects, employment opportunities)
  - D.    Other government and industry organizations involvement

## **REQUIRED READING:**

Kane, A. Air Transportation. 13th edition. Dubuque, IA: Kendall/Hunt Publishing, 1999.

Miscellaneous handouts pertaining to current topics.

**SUGGESTED READING:**    None

## **REQUIRED WRITING:**

A short paper, 1-2 pages, dealing with a current event will be assigned on an individual basis.

## **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.**

Outside assignments include reading the text, studying class notes, filling in short answers to chapter questions, and writing the required paper.

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**

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

Lecture, films, discussion of current topics

**DISTANCE LEARNING:**

**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 (including the final) and an assigned paper. All four tests will be averaged and then "adjusted" for the 1-2 page paper--minus 5 points for no/unacceptable paper up to plus 5 points for an excellent paper.

**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