

COURSE OUTLINE

Aviation and Transportation 134

American Aviation Travel History and Operations

I. Catalog Statement

Aviation and Transportation 134 introduces students to aviation travel history and the manner in which related events have affected the nation socially, economically and politically. This study of aviation will emphasize the development, testing, and utilization of aircraft in California.

Units – 3.0

Lecture Hours – 3.0

Prerequisite: None

II. Course Entry Expectations

Skill Level Ranges: Reading 5; Writing 5; Listening/Speaking 5; Mathematics: 3.

III. Course Exit Standards

Upon successful completion of required coursework, the student will be able to:

1. identify early attempts at gliding and powered flight;
2. identify contributions of early American aviators;
3. compare early contributions of prominent individuals to airlines, airports, and other organizations with government attempts at expansion;
4. analyze the contribution of aviation to the mail service and other current forms of communication;
5. recognize early California local and regional airport contributions to economic development;
6. compare and contrast the scope and availability of career opportunities in the local airline travel industry as impacted by governmental intervention.

IV. Course Outline

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| A. Gliding prelude to powered flight | 3 hours |
| B. Powered prelude and expectations of practical flight | 3 hours |
| C. The Wright Brothers and the practical airplane | 12 hours |
| 1. The investigation | |
| 2. Experimentation | |
| 3. Gliding | |
| 4. Powered flight | |

- a. Dayton, Ohio
- b. Europe
- 5. Government contracts
 - a. Patent suits
 - b. Individual influence
- D. Practical flight in America 6 hours
 - 1. Early experimental successes
 - 2. Foreign influences
 - 3. Powerplant design and construction
- E. The airplane as an accepted transportation vehicle 4 hours
- F. The first World War 3 hours
- G. Between the wars 6 hours
 - 1. Barnstormers
 - 2. Mail service
 - 3. Early airlines
 - 4. Airports
 - 5. Organizations
- H. The entry of women into aviation 4 hours
 - 1. Contributions
 - 2. Accomplishments
- I. Aviation in California 4 hours
 - 1. Competition air meets
 - 2. Records and attempts
- J. Airport developments 3 hours
 - 1. Record setting flights
 - 2. Aviation in the Los Angeles/Glendale area

V. Methods of Presentation

- 1. Classroom lecture and demonstration.
- 2. Film viewings

VI. Assignments and Methods of Evaluation

- 1. A term paper on a topic in aviation history is required.
- 2. Regular quizzes are given.
- 3. A mid-term and comprehensive two-and-one-half hour written final examination are required.

Special Features

Guest speakers will be invited to appear in class when scheduling permits.

VII. Textbooks

VIII. Student Learning Outcomes:

1. Student will be able to identify early attempts at gliding and powered flight.
2. Student will be able to identify contributions of early American aviators.
3. Student will be able to compare early contributions of prominent individuals to airlines, airports, and other organizations with government attempts at expansion.
4. Student will be able to analyze the contribution of aviation to the mail service and other current forms of communication.
5. Student will be able to recognize early California local and regional airport contributions to economic development.
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