

STATUS: A

COMMON COURSE NUMBER: AVM 2950

COURSE TITLE: Aviation Education Travel Seminar

CREDIT HOURS: 1

CONTACT HOURS BREAKDOWN:

Lecture/Discussion 16

Lab

Other

Contact Hours/Week 1

CATALOG COURSE DESCRIPTION:

Prerequisite: None

Corequisite: None

Through a combination of lecture and observation, this travel seminar to the Washington, D.C. area is designed to provide aviation students with an overview of the role played by major aviation associations, congressional sub-committees and federal agencies that shape the aviation industry. Students will also have a guided tour of the National Air and Space Museum and Silver Hill, Maryland where aircraft restoration work is done for the Smithsonian.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES:

- 1. Aviation Points of Interest**
- 2. Major Aviation Associations**
- 3. Federal Agencies**
- 4. Congressional Aviation Sub-Committees**

I. Course Overview:

Upon successful completion of this course, the students should be able to have an appreciation of the historical development of aviation and an understanding of the important role played by major aviation associations, federal agencies and congressional subcommittees in shaping the aviation industry.

II. Units:

Unit 1. Aviation Points of Interest

General Outcome:

- 1.0 The students should be able to appreciate and understand the historical development of aviation including the aircraft and individuals who contributed to its growth and significance.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Describe the significant developments in aviation during the following periods: Balloon and Rigid Airships; Heavier-than-Air Aircraft to the Wright Brothers; The Wright Brothers to World War I; World War I and the Barnstorming period; The speed races of the 1930's and military aviation; World War II; Post-War Airline development; General Aviation; and America in Space.
- 1.2 Identify the individuals and aircraft that played an important role in the development of aviation over its brief but significant history.
- 1.3 Appreciate the painstaking effort, time and money that goes into restoring vintage aircraft by the skilled technicians at the Smithsonian Silver Hill, Maryland facility.

Unit 2. Major Aviation Associations

General Outcome:

- 2.0 The students should be able to recognize the important role played by various aviation associations in representing their members on Capital Hill regarding all matters pertaining to legislation and funding.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Discuss the role and important functions of various aviation associations visited within the Washington, D.C. area.
- 2.2 Understand how these associations interface with federal agencies and congressional committees in shaping legislation affecting the aviation industry.
- 2.3 Describe the important services provided by these associations for their members.

Unit 3. Federal Agencies: Federal Aviation Administration and the National Transportation Safety Board.

General Outcome:

3.0 Students should be able to discuss the role of the Federal Aviation Administration and the National Transportation Safety Board in developing a safe and efficient airway system in the United States.

Special Learning Outcomes:

Upon successful completion of this unit, students should be able to:

3.1 Describe the FAA's principal responsibilities in the following areas: Air Traffic Control; Aircraft and Airmen Certification; Airport Aid and Certification; Environmental Protection; Civil Aviation Security; Engineering and Development; and International Aviation.

3.2 Identify the steps involved in a major accident investigation by the NTSB.

3.3 Distinguish between the FAA and NTSB in terms of their role in aviation safety.

3.4 Explain the function of the NTSB technical laboratory in supporting the accident investigation process.

Unit 4. Congressional Aviation Subcommittees: Aviation subcommittee of the House Commerce, Science & Transportation Committee and the Aviation Subcommittee of the Senate Public Works & Transportation Committee.

General Outcome:

4.0 Students should be able to recognize the function of congressional aviation sub-committees in promulgating legislation which affects all segments of the aviation industry.

Specific Learning Outcomes:

Upon successful completion of this unit, students should be able to:

4.1 Describe the functions of the House and Senate Aviation Subcommittees.

4.2 Understand the process by which legislation affecting the industry is analyzed and presented to both houses of congress.