



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: ASC 2320

COURSE TITLE: Aviation Law & Regulations

CREDIT HOURS: 3

CONTACT HOURS BREAKDOWN:

Lecture/Discussion 48

Lab

Other

Contact Hours/Week 3

CATALOG COURSE DESCRIPTION:

Prerequisite: None

Co requisite: None

An introduction and analysis of the regulations and laws governing airport and airline operations incorporating aviation safety; topics of discussion include the major regulations to include: Federal Aviation Regulations (FARs) 77, 108, 121, 129, 135, 139, 150, 191, and NTSB 830. These topics will include navigable airspace, airport and airline security, air carrier certification, air taxi operations, airport certification, and airport noise and the applicable Advisory Circulars (A/C) that explain compliance. Additionally, these topics of discussion will include an overview of how the regulations are governed and administered, compliance with regulations, non-compliance, and the management of government regulation.

UNIT TITLES

1. Overview
2. History of Regulations
3. Airport Navigable Airspace
4. Airport/Airline Security
5. Airline Certification
6. Airport Certification
7. Aircraft Rescue and Firefighting
8. Airport Noise Compatibility
9. Managing Regulation
10. The FAA Perspective

I. Course Overview:

Upon successful completion of this course, the students should be able to demonstrate an understanding of regulations governing airlines and airports, their purpose, and management of regulation.

II. Units:

Unit 1. Overview

General Outcome:

- 1.0 The students should be able to recognize the importance of regulation, the history, reasons and management of the regulations. Additionally, students should recognize the role and responsibilities of the FAA and the regulated industries.

Specific Learning Outcomes:

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

- 1.1 Explain the major regulations affecting airline transports and airports.
- 1.2 Identify the reasons for regulations

Unit 2. History of Regulation

General Outcome:

2.0 The students should be able to recognize the importance and historical significance of regulations and the reasons for the same.

Specific Learning Outcomes:

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

- 2.1 Explain the major legislation and acts that have affected the airline and airport industries.
- 2.2 Identify the Federal Aviation Act of 1958.
- 2.3 Airport and Airway Development Act of 1970.
- 2.4 Airline Deregulation (1978).
- 2.5 Identify the need for regulations.

Unit 3. Airport Navigable Airspace

General Outcome:

3.0 The students should be able to identify the FAP Part 77 airspace surfaces, the purpose of the surfaces, and the potential results of non-compliance.

Specific Learning Outcomes:

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

- 3.1 Identify Part 77 airport surfaces.
- 3.2 Explain runway protection zones/approach slopes.
- 3.3 Define transitional surfaces.
- 3.4 Discuss horizontal surfaces.
- 3.5 Define conical surfaces.
- 3.6 Identify 3D map of airport imaginary surfaces.
- 3.7 Identify runway primary surfaces.
- 3.8 Identify Terminal Instrument Procedures from the Airport perspective.

Unit 4. Airport/Airline Security

General Outcome:

4.0 The students should be able to determine the requirements of airport and airline security under regulations, causes for security, areas of responsibility, and current threats to aviation.

Specific Learning Outcomes:

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

- 4.1 Discuss FAR part 191, Protection of Sensitive Security Information.
- 4.2 Identify purpose and aspects of FAR Part 107.
- 4.3 Explain the airport operator's role.
- 4.4 Identify purpose and aspects of FAR Part 108.
- 4.5 Explain the role of the air carrier.
- 4.6 Identify the role of the FAA (FBI, NTSB).
- 4.7 Identify and explain the purpose of the Airport Security Plan.
- 4.8 Describe Foreign Airline Security.

Unit 5. Airline Certification

General Outcome:

5.0 The students should be able to understand what it takes to become a certificated air carrier under federal regulation, remain certificated, and reasons for air carrier certification.

Specific Learning Outcomes:

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

- 5.1 Identify what makes an airline an air carrier.
- 5.2 Identify requirements for airline certification.
- 5.3 Explain FAR Part 121.
- 5.4 Discuss FAR Part 129.
- 5.5 Identify Air taxi carriers.
- 5.6 Explain what makes an airline and Air taxi operation.

Unit 6. Airport Certification

General Outcome:

6.0 The students should be able to understand and determine what makes an airport require certification, what certification is, and how airports comply with regulations.

Specific Learning Outcomes:

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

- 6.1 Identify why airports are certificated and what's required for an airport to be certificated.
- 6.2 Discuss FAR Part 139.
- 6.3 Detail the need for airport self-inspections.
- 6.4 Describe what Aircraft Rescue and Firefighting entails (ARFF).
- 6.5 Define ARFF indexes.
- 6.6 Identify operational aspects under Subpart D of FAR 139.
- 6.7 Identify the Airport Certification Manual and its purpose.
- 6.8 Identify Advisory Circulars and their purpose.
- 6.9 Describe airport emergency responses.

Unit 7. Aircraft Rescue and Firefighting/NTSB 830

General Outcome:

7.0 The students should be able to determine the differences between standard firefighting techniques and aircraft rescue, response criteria under the regulation, and the materials used to fight aircraft fires. Additionally, there should be a basic understanding of the make up of materials in modern commercial aircraft that require the established response and training.

Specific Learning Outcomes:

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

- 7.1 Explain ARFF rules under FAR Part 139.
- 7.2 Identify airport indexes and the reasons for indexing airports.
- 7.3 Identify and understand response criteria.
- 7.4 Identify the materials used to fight aircraft fires.
- 7.5 Identify the requirements of ARFF units and the needs for specialized training/characteristics of aircraft materials.
- 7.6 Describe the requirements of NTSB 830 and protection of accident scenes.

Unit 8. Airport Noise Compatibility

General Outcome:

8.0 The students should be able to understand the reasons for airport noise control and airport community relations, FAR Part 150, and compliance with the regulation.

Specific Learning Outcomes:

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

- 8.1 Identify and understand FAR part 150.
- 8.2 Relate reasons for noise compatibility and noise studies.
- 8.3 Identify a noise contour.
- 8.4 Discuss the importance of airport community relations.
- 8.5 Explain hypothetical noise abatement procedures.
- 8.6 Identify future trends toward reducing aircraft noise.

Unit 9. Managing Regulation

General Outcome:

9.0 The students should be able to identify techniques and methods to managing regulations and working with regulatory agencies. Identify the importance of compliance and potential ramifications of non-compliance.

Specific Learning Outcomes:

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

- 9.1 Identify methods for complying with industry regulations.
- 9.2 Identify non-compliance potential ramifications.
- 9.3 Explain the importance of regulations and the enforcement agencies.
- 9.4 Describe how to work with regulatory agencies.
- 9.5 Recognize how regulations work in conjunction to form the common goal of aviation safety.

Unit 10. The FAA Perspective

General Outcome:

10.0 The students should be able to understand the perspective of the FAA as a government agency responsible for aviation safety and enforcement.

Specific Learning Outcomes:

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

- 10.1 Explain the FAA's role as a government agency.
- 10.2 Detail the enforcement responsibilities of the FAA.
- 10.3 Identify methods used for enforcement.
- 10.4 Identify and understand pro-active safety approaches by the FAA.

