

## **COURSE OUTLINE**

### **Transportation and Border Security**

#### **Course Description**

AJ 105. Transportation and Border Security. 3 hours credit. This course will enable the student to examine the securing of transportation systems along with the passengers and cargo they transport. The student will explore the components of major transportation systems and the various security threats, risks, and vulnerabilities they face (including terrorism). The student will discuss substantive issues that involve governmental and non-governmental entities involved in transportation.

#### **Course Relevance**

The individual worker in the homeland security field needs a practical understanding of the complexity of securing the global transportation system. In this course the student will gain a practical understanding of how the global supply chain functions, the implications of potential disruption to that chain, specific vulnerabilities, and characteristics of each component. Students will also review the history and challenges of transportation and border security and its implications to our society.

#### **Required Materials**

Sweet, K., *Transportation and cargo security*. Upper Saddle River, NJ: Pearson Education, Inc.

\* - For complete textbook information, refer to <http://www.butlercc.bkstr.com>

#### **Butler Assessed Outcomes**

The intention is for the student to be able to:

1. Demonstrate knowledge of modern transportation and border security challenges as well as methodologies employed to address those challenges.
2. Identify the legal, economic, political and cultural concerns and impacts associated with transportation and border security.
3. Describe the components of border security and transportation infrastructure to include: seaports, ships, aircraft, airports, trains, train stations, trucks, highways, bridges, rail lines, pipelines and buses.

#### **Learning Outcomes**

1. Outline the primary federal and state/local agencies in the US who are affiliated with Border Security and Transportation Security (including DHS and DOT their resources, and the ethical parameters in which they operate.
2. Construct a historical timeline reflecting significant transportation related terrorist threats and events in the United States and globally.
3. General understanding of the modes of transportation and their industries as it may impact security.
4. Identify general vulnerabilities and risks in transportation systems and border

security systems.

5. Demonstrate knowledge of the impact of technology on countering threats to transportation systems and border security.
6. Discuss differences in dealing with security threats for passenger versus freight/cargo transportation systems including the impact on supply chain logistics.
7. Classify the roles, functions, and interdependency between local, federal, and international law enforcement and military agencies to foster border security.
8. Solve problems as an individual and in a coordinated team setting.
9. Demonstrate basic verbal and communication skills, and write clear, concise and accurate reports to provide factual information, accurate data analysis, and logical recommendations.
10. Discuss the supply chain logistics and modes of transportation.

### **Learning PACT Skills that will be developed and documented in this course**

Through involvement in this course, the student will develop ability in the following PACT skill area(s):

#### **Analytical Thinking Skills**

1. Critical thinking
  - Through written assignments and other activities conducted in class, the student will develop critical thinking skills by surveying intelligence gathering and analysis techniques.

#### **Major Summative Assessments Task(s)**

These learning outcome(s) and the Learning PACT skill(s) will be demonstrated by:

1. Completing a written project in which the student analyzes transportation and border security from a psychosocial perspective.

#### **Course Content**

- I. Skills or Competencies – Actions that are essential to achieve the course outcomes:
  - A. Outline the primary federal, state and local agencies in the US who are affiliated with Border Security and Transportation Security, including DHS and DOT along with their resources and the ethical parameters in which they operate.
  - B. Construct a historical timeline reflecting significant transportation related terrorism threats and events in the United States and globally
  - C. Examine the various modes of transportation and their industries as it may impact security.
  - D. Identify general vulnerabilities and risks in transportation systems and border security systems.
  - E. Demonstrate knowledge of the impact of technology on countering threats to transportation systems and border security.
  - F. Discuss differences in dealing with security threats for passenger versus freight/cargo transportation systems including the impact on supply chain logistics.
  - G. Classify the roles, functions and interdependency between local, federal and international law enforcement and military agencies to foster border security.
  - H. Solve problems as an individual, and in a coordinated team setting.
  - I. Demonstrate basic verbal and communications skills and write, clear, concise and accurate reports to provide factual information, accurate data analysis and logical recommendations.

- J. Discuss the supply chain logistics and modes of transportation.
- II. Themes – Key recurring concepts that run throughout this course:
  - A. Role of Transportation and Border Security efforts in protecting global transportation and commerce.
  - B. Duties and responsibilities of governmental and private entities in Transportation and Border Security.
  - C. Security operations and management in the post 9/11 era.
- III. Issues – Key areas of conflict that must be understood in order to achieve the intended outcome:
  - A. Laws, regulations and budgeting
  - B. Risk management of threats and hazards to transportation security management.
  - C. The logistics of securing modern commerce
- IV. Concepts – Key concepts that must be understood to address the issues:
  - A. Understanding the responsibilities and capabilities of different regulatory entities within US and Foreign governments.
  - B. Knowledge of the specific regulatory agencies and their roles
  - C. Management concepts within the security management industry.

### **Learning Units**

- I. Importance of the global transportation system
  - A. Air transportation
  - B. Rail transportation
  - C. Maritime transportation
  - D. Highway transportation
  - E. Mass transit
  - F. Pipeline transportation
- II. Protecting transportation system components
  - A. Air transportation
  - B. Rail transportation
  - C. Maritime transportation
  - D. Highway transportation
  - E. Mass transit
  - F. Pipeline transportation
- III. Transportation law and regulations
  - A. International law and regulations
  - B. Domestic law and regulations
    - 1. Federal law and regulations
    - 2. State law and regulations
    - 3. Local law and regulations
- IV. Transportation and border security technology
  - A. Cargo screening
  - B. Hazardous materials
  - C. Countermeasures
  - D. New technologies
- V. Transportation industry stakeholders

- A. Industry practices and organizations
- B. Government agencies

VI. Terrorism and transportation

- A. Terrorist threats to transportation
- B. 21<sup>st</sup> century threats

**Learning Activities**

Learning activities will be assigned to assist the student to achieve the intended learning outcome(s) through lecture, instructor-led class discussions, group study, field trips, library research, various audio/visual aids, case studies, guest speakers and student presentations, and other activities at the discretion of the instructor.

**Grade determination**

The student will be graded on assessment tasks. Grade determinants may include the following: research papers, tests, daily work, class participation, out-of-class assignments and other methods of evaluation at the discretion of the instructor.