ITT Technical Institute

CJ264P

Transportation Security

Onsite Course

SYLLABUS

Credit hours: 4

Contact/Instructional hours: 56 (56 Theory Hours)

Prerequisite(s) and/or Corequisite(s):

None.

Course Description:

This course examines current and future threats to the transportation systems and discusses methods and technologies designed to confront these threats. Coverage of relevant security issues relating to transportation by sea, land, pipeline and air will be included.

Where Does This Course Belong?

This course typically is offered in the seventh quarter of the associate degree in Criminal Justice.

Program Information

Program Scope and Core Content Areas

This program teaches the fundamentals of the criminal justice system and criminal justice skills. The program offers a foundation in criminal law, legal procedures, criminal evidence, and criminology. Areas of study include law enforcement, the courts, and corrections. Students are taught about the legal system and law enforcement standards and can develop technical skills predominant in today's criminal justice environment. The upper-level courses enhance the study of the criminal justice system and expand into areas such as criminalistics, victimology, and forensics investigations. The curriculum is designed to offer a balance of theory and application used in the field by integrating interpersonal skills and administrative subject matter. Students will examine the criminal justice process and study interpersonal communication skills. The program offers an interdisciplinary study of the mechanisms of social control, criminology, and criminal justice in American society. Program content includes communication, criminal law and procedures, cybercrime, and homeland security issues, as well as technology skills. The program can help graduates cultivate particular human relations skills appropriate to the industry and an understanding of the causes and prevention of crime.

Program Goals and Objectives

The Criminal Justice program was designed to lead to the following outcomes:

1. Articulate the U.S. Criminal Justice System and relate the different processes and participants in the system to the different criminal justice cores.
2. Articulate the basic elements of a democratic society.
3. Interact tactfully in a culturally diverse society.
4. Communicate effectively orally, interpersonally, and in writing.
5. Articulate the functions and interdependence of the various institutions within the criminal justice system.
6. Defend positions on ethical issues inherent within the criminal justice system.
7. Critically analyze information to solve problems relative to the administration of justice in American society.
8. Apply basic research and analytical techniques to resolve issues within a criminal justice environment.
9. Use critical thinking and problem-solving and decision-making skills to anticipate and resolve criminal justice issues.

10. Negotiate effectively in a criminal justice environment.
11. Manage oneself effectively by setting, monitoring, and achieving specific and realistic personal and professional goals.
12. Demonstrate the ability to anticipate and react to various criminal justice situations in an appropriate and effective manner.
13. Apply a systems thinking perspective to personal and professional relationships in a criminal justice environment.
14. Demonstrate a theoretical and practical knowledge of the American justice system.
15. Articulate the structure, functions, and decision-making process of all the agencies within the criminal justice system.
16. Demonstrate the ability to work collaboratively with a group to accomplish an agreed-upon goal.
17. Assess the impact of trends in the criminal justice system.
18. Demonstrate the ability to interpret, analyze, and correlate economic, social, and political issues.
19. Demonstrate the ability to behave ethically in a simulated criminal justice situation.

Career Impact

Although applied technical skills are critical in the workplace, General Education skills, such as critical thinking, problem solving, communication, and the ability to work in teams, are often the skills that help the most successful employees advance.

NOTE: Refer to the catalog for the state-specific course and program information, if applicable.

This course is required for the Criminology and Forensic Technology Associate degree program in the School of Criminal Justice. This program covers the following core areas:

- Law Enforcement
- Adjudication
- Corrections
- Forensics
- Security

Course Summary

Major Instructional Areas

1. Policies, Procedures, and Techniques in Securing Transportation Safety
2. Threats to Transportation Security
3. Technology Used to Ascertain Transportation and Cargo Safety

Course Objectives

1. Explain the history and importance of the global transportation system and its various sectors.
2. Analyze the measures taken for the protection of transportation facilities post 9/11.
3. Evaluate the impact of domestic and international laws and regulations on the transportation industry.
4. Evaluate various cargo and mail screening programs.
5. Evaluate the threats confronting the global transportation system and the countermeasures designed to mitigate them.
6. Evaluate the basic policies and procedures used to maintain personnel security within transportation systems.
7. Examine the policies and techniques pertaining to procedural security within transportation systems.
8. Review the work of the government agencies tasked with the mission to enhance the security of the United States since 9/11.
9. Examine how advances in technology will continue to improve the security of transport facilities.
10. Research the ITT Tech Virtual Library for incidents that have targeted transportation systems.

Learning Materials and References

Required Resources

Complete Textbook Package	New to this Course	Carried over from Previous Course(s)	Required for Subsequent Course(s)
Edwards, F. L., & Goodrich, D. C. (2013). *Introduction to transportation security*. Boca Raton, FL: CRC Press.	■		

Recommended Resources

ITT Tech Virtual Library (accessed via Student Portal | https://studentportal.itt-tech.edu)

- Young, R. R. (2013). Introduction to transportation security. *Transportation Journal,* 52(2), 297.
- Feller, G.M. (2013). Security of military transportation. *Military Thought*, 22(1), 83-96.
- Tate, W. H. & Abkowitz, M. D. (2012). Emerging technologies applicable to hazardous materials transportation safety and security. *Journal of Transportation Safety & Security*, 4(3), 244-257.

Other References

- Transportation Security Administration

Home page for the Transportation Security Administration.

http://www.tsa.gov/

- Homeport Security

Home page for the U.S. Coast Guard's Department of Homeland Security.

https://homeport.uscg.mil/mycg/portal/ep/home.do?tabId=0&BV_SessionID=@@@@1173673071.1367251408@@@@&BV_EngineID=ccccadfjjmfdifmcfngcfkmdfhfdfgo.0

NOTE: All links are subject to change without prior notice.

Information Search

Use the following keywords to search for additional online resources that you may use to support your work on the course assignments:

- Transportation security
- Infrastructure security
- Security personnel
- Theories of transportation security
- Emergency management
- Emergency preparedness
- Federal transportation agencies
- Road security
- Risk assessment in transportation security
- Cargo security
- Heavy rail systems
- Hazardous security technology
- Freight security technology
- Rail security
- Port security
- Transportation risk assessment
- Security elements
- Public Transportation Security
- IEDs
- Paratransit
- Rail system security
- Fixed transit operations
- Security technology
- Maritime transportation security
- Container ship security
- Piracy
- Air cargo security
- Transportation Security Administration (TSA)
- Federal Aviation Administration (FAA)
- Supply chain
- Transportation personnel security
- Public and private transportation partnerships

Suggested Learning Approach

In this course, you will be studying individually and within a group of your peers. As you work on the course deliverables, you are encouraged to share ideas with your peers and instructor, work collaboratively on projects and team assignments, raise critical questions, and provide constructive feedback.

Use the following advice to receive maximum learning benefits from your participation in this course:

DO	DON'T
▪ Do take a proactive learning approach ▪ Do share your thoughts on critical issues and potential problem solutions ▪ Do plan your course work in advance ▪ Do explore a variety of learning resources in addition to the textbook ▪ Do offer relevant examples from your experience ▪ Do make an effort to understand different points of view ▪ Do connect concepts explored in this course to real-life professional situations and your own experiences	▪ Don't assume there is only one correct answer to a question ▪ Don't be afraid to share your perspective on the issues analyzed in the course ▪ Don't be negative about the points of view that are different from yours ▪ Don't underestimate the impact of collaboration on your learning ▪ Don't limit your course experience to reading the textbook ▪ Don't postpone your work on the course deliverables – work on small assignment components every day

Instructional Methods

The curriculum is designed to encourage a variety of teaching strategies that support the course objectives while fostering higher cognitive skills. This course will employ multiple methods to deliver content and inspire and engage you, including lectures, collaborative learning options, and hands-on activities. This course is composed of theory. Your progress will be regularly assessed through assignments, a project, quizzes, and a final exam.

Out-of-Class Work

For purposes of defining an academic credit hour for Title IV funding purposes, ITT Technical Institute considers a quarter credit hour to be the equivalent of: (a) at least 10 clock hours of classroom activities

and at least 20 clock hours of outside preparation; (b) at least 20 clock hours of laboratory activities; or (c) at least 30 clock hours of externship, practicum or clinical activities. ITT Technical Institute utilizes a "time-based option" for establishing out-of-class activities which would equate to two hours of out-of-class activities for every one hour of classroom time. The procedure for determining credit hours for Title IV funding purposes is to divide the total number of classroom, laboratory, externship, practicum and clinical hours by the conversion ratios specified above. A clock hour is 50 minutes.

A credit hour is an artificial measurement of the amount of learning that can occur in a program course based on a specified amount of time spent on class activities and student preparation during the program course. In conformity with commonly accepted practice in higher education, ITT Technical Institute has institutionally established and determined that credit hours awarded for coursework in this program course (including out-of-class assignments and learning activities described in the "Course Outline" section of this syllabus) are in accordance with the time-based option for awarding academic credit described in the immediately preceding paragraph.

Course Outline

Unit 1: SECURITY THEORY

Upon completion of this unit, students are expected to:

- Discuss safety, security, and emergency management from a historical perspective.
- Differentiate the theories behind transportation security pre- and post-9/11.
- Identify the risks to transportation security.

Total outside work: 6.5 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 1		25 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.0 hrs
	Complete the writing assignment	4.5 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 1 Assignment 1: The History of Safety, Security, and Emergency Management and Theories in Identifying Risks	1.5%

Unit 2: EMERGENCY MANAGEMENT

Upon completion of this unit, students are expected to:

- Differentiate among emergency, event, disaster, and catastrophe.
- Analyze emergency management theories.
- Interpret continuity of operations.

Total outside work: 8 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 2		32 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.5 hrs
	Complete the writing assignment	4.0 hrs
	Identify course project topic	1.5 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 2 Assignment 1: Preparing for and Reacting to a Catastrophic Event	1.5%
		Unit 2 Assignment 2: Emergencies and Catastrophes	1.5%
	Project	Project Part 2 Vulnerability Assessment (Assigned Unit 1)	3%

Unit 3: FEDERAL AGENCIES

Total outside work: 8 hours

Upon completion of this unit, students are expected to:

- Identify the agencies involved in transportation security.
- Discuss the involvement of Homeland Security in surface transportation.
- Summarize sources of assistance and funding for transportation security.

	Author	Chapter/Title	Pages (if necessary)	Total Pages
READING ASSIGNMENT	Edwards & Goodrich	Chapter 3		26 pages

	Activity	Estimated Time
OUT OF CLASS WORK	Complete the reading assignment	2.0 hrs
	Complete the writing assignment	4.5 hrs
	Study for Quiz 1	1.5 hrs

	Grading Category	Activity/Deliverable Title	Grade Allocation (% of all graded work)
GRADED ACTIVITIES/ DELIVERABLES	Assignment	Unit 3 Assignment 1: Working with Homeland Security	1.5%
		Unit 3 Assignment 2: Securing Cargo and Mail	1.5%

Unit 4: RISK ASSESSMENT

Total outside work: 8 hours

Upon completion of this unit, students are expected to:

- Develop a security lexicon.
- Analyze organizational security.
- Summarize the alignment of operations and security.

	Author	Chapter/Title	Pages (if necessary)	Total Pages
READING ASSIGNMENT	Edwards & Goodrich	Chapter 4		25 pages

	Activity	Estimated Time
OUT OF CLASS WORK	Complete the reading assignment	2.0 hrs
	Complete the writing assignment	4.0 hrs
	Complete the course project outline	2.0 hrs

	Grading Category	Activity/Deliverable Title	Grade Allocation (% of all graded work)
GRADED ACTIVITIES/ DELIVERABLES	Assignment	Unit 4 Assignment 1: Security Elements	1.5%
		Unit 4 Assignment 2: Risk Assessment Begins at Home	1.5%
	Quiz	Unit 4 Quiz 1	10%
	Project	Project Part 3 Vulnerability Assessment (Assigned Unit 4)	3%

Unit 5: ROAD SECURITY

Upon completion of this unit, students are expected to:

- Discuss the vulnerabilities of road transportation.
- Interpret road systems and construction.
- Examine the vulnerable infrastructure.

Total outside work: 6.5 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 5		29 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.5 hrs
	Complete the writing assignment	4.0 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 5 Assignment 1: Security Incidences & Procedures	1.5%
		Unit 5 Assignment 2: The Roads	1.5%

Unit 6: COMMERCIAL VEHICLES AND DELIVERABLES

Upon completion of this unit, students are expected to:

- Distinguish between buses, ambulances, and delivery services.
- Discuss the identification of suspicious packages.
- Analyze how transit can be disrupted.

Total outside work: 7.5 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 6		24 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.0 hrs
	Complete the writing assignment	4.0 hrs
	Complete the course project reference listing	1.5 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 6 Assignment 1: Threats to the Public	1.5%
		Unit 6 Assignment 2: The Human Factor	1.5%
	Project	Project Part 4 Vulnerability Assessment (Assigned Unit 6)	3%

Unit 7: MASS TRANSIT AND FIXED-RAIL TRANSIT

Upon completion of this unit, students are expected to:

- Identify railway vulnerabilities.
- Discuss technology and security.
- Examine terrorism and mass transit.

Total outside work: 6.5 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 7		28 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.5 hrs
	Complete the writing assignment	4.0 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 7 Assignment 1: Learning More about Transit Security	1.5%
		Unit 7 Assignment 2: Mass Transit	1.5%

Unit 8: HEAVY RAIL TRANSPORTATION

Upon completion of this unit, students are expected to:

- Describe the long-distance and heavy rail system.
- Discuss the identification of hazardous materials.
- Analyze the use of technology in securing long-distance rail usage.

Total outside work: 8 hours

READING ASSIGNMENT	**Author**	**Chapter/Title**	**Pages (if necessary)**	**Total Pages**
	Edwards & Goodrich	Chapter 8		32 pages

OUT OF CLASS WORK	**Activity**	**Estimated Time**
	Complete the reading assignment	2.5 hrs
	Complete the writing assignment	4.0 hrs
	Study for Quiz 2	1.5 hrs

GRADED ACTIVITIES/ DELIVERABLES	**Grading Category**	**Activity/Deliverable Title**	**Grade Allocation** (% of all graded work)
	Assignment	Unit 8 Assignment 1: Threats to the Public	1.5%
		Unit 8 Assignment 2: Security Technology	1.5%

Unit 9: SEA AND RIVER TRANSPORT

Total outside work: 11 hours

Upon completion of this unit, students are expected to:

- Identify vulnerabilities in our ports and shipping system.
- Discuss the identification of hazardous materials in our stationary and storage units.
- Describe the use of technology in securing our shipping and ports.

	Author	Chapter/Title	Pages (if necessary)	Total Pages
READING ASSIGNMENT	Edwards & Goodrich	Chapter 9		31 pages

	Activity	Estimated Time
OUT OF CLASS WORK	Complete the reading assignment	2.5 hrs
	Complete the writing assignment	3.5 hrs
	Complete the course project rough draft 1	5.0 hrs

	Grading Category	Activity/Deliverable Title	Grade Allocation (% of all graded work)
GRADED ACTIVITIES/ DELIVERABLES	Assignment	Unit 9 Assignment 1: Threats to the Public	1.5%
		Unit 9 Assignment 2: Oil Tankers	1.5%
	Project	Project Part 5 Vulnerability Assessment (Assigned Unit 9)	9%
	Quiz	Unit 9 Quiz 2	10%

Unit 10: AIR CARGO

Total outside work: 10.5 hours

Upon completion of this unit, students are expected to:

- Identify potential security risks in air cargo transport.
- Analyze the role of technology in securing air cargo.
- Define the methodology of terrorists in attacking air cargo systems.

	Author	Chapter/Title	Pages (if necessary)	Total Pages
READING ASSIGNMENT	Edwards & Goodrich	Chapter 10		24 pages

	Activity	Estimated Time
OUT OF CLASS WORK	Complete the reading assignment	2.0 hrs
	Complete the writing assignment	3.5 hrs
	Complete the course project final submission	5.0 hrs

	Grading Category	Activity/Deliverable Title	Grade Allocation (% of all graded work)
GRADED ACTIVITIES/ DELIVERABLES	Assignment	Unit 10 Assignment 1: Transforming Air Cargo	1.5%
		Unit 10 Assignment 2: Terrorist Attacks	1.5%
	Project	Project Part 6 Vulnerability Assessment (Assigned Unit 10)	12%

Unit 11: THE SUPPLY CHAIN

Upon completion of this unit, students are expected to:

- Analyze specific emergency responses.
- Differentiate between public and private partnerships.
- Discuss personnel security.

Total outside work: 7.5 hours

	Author	Chapter/Title	Pages (if necessary)	Total Pages
READING ASSIGNMENT	Edwards & Goodrich	Chapter 11		22 pages

	Activity	Estimated Time
OUT OF CLASS WORK	Complete the reading assignment	2.0 hrs.
	Complete the writing assignment	0.5 hr
	Study for the final exam	5.0 hrs

	Grading Category	Activity/Deliverable Title	Grade Allocation (% of all graded work)
GRADED ACTIVITIES/ DELIVERABLES	Assignment	Unit 11 Assignment 1: Personnel Preparedness and Safety	1.5%
	Exam	Final Exam	20%

Evaluation and Grading

Evaluation Criteria

The graded assignments will be evaluated using the following weighted categories:

Category	In-Class	Out-of-Class	Weight
Assignment	15%	15%	30%
Project		30%	30%
Quiz	20%		20%
Exam	20%		20%
TOTAL	**55%**	**45%**	**100%**

Grade Conversion

The final grades will be calculated from the percentages earned in the course, as follows:

Grade		Percentage
A	(4.0)	90–100%
B+	(3.5)	85–89%
B	(3.0)	80–84%
C+	(2.5)	75–79%
C	(2.0)	70–74%
D+	(1.5)	65–69%
D	(1.0)	60–64%
F	(0.0)	<60%

Academic Integrity

All students must comply with the policies that regulate all forms of academic dishonesty or academic misconduct, including plagiarism, self-plagiarism, fabrication, deception, cheating, and sabotage. For more information on the academic honesty policies, refer to the Student Handbook and the Course Catalog.

(End of Syllabus)