

## Critical Infrastructure Protection (HMSY 1341) Online



**Credit:** 3 semester credit hours (3 hours lecture, 0 hours lab)

**Prerequisite/Co-requisite:** Complete the Online Orientation and answer yes to 7+ questions on the Online Learner Self-Assessment:

<http://www.lit.edu/depts/DistanceEd/OnlineOrientation/OOStep2.aspx>

### Course Description

Identification and analysis of critical infrastructure systems including security and threat assessments. Includes mitigation of threats as well as evaluation and revision of security measures in order to protect critical infrastructures. *This course is time-bound, structured, and completed totally online.*

### Required Text and Materials

Text Material is provided online:

- Critical Infrastructure Resource Guide 2010
- The Office of Infrastructure Protection
- IS-821 Critical Infrastructure and Key Resources Support Annex
- IS-860.a National Infrastructure Protection Plan (NIPP)
- IS-890.a, Introduction to the Interagency Security Committee (ISC)
- IS-906 Workplace Security Awareness
- IS 907 Active Shooter: What You Can Do
- IS-912 Retail Security Awareness: Understanding the Hidden Hazards
- IS-921 Implementing Critical Infrastructure Protection Programs

### Course Objectives

Upon completion of this course, the student will be able to:

1. Identify local area critical infrastructures
2. Evaluate security measures
3. Report methods to revise security of protection assets
4. Demonstrate mitigation of a critical infrastructure threat
5. Conduct information collection using the Internet and library resources
6. Present written and oral reports on findings

### Course Outline

1. Syllabus
  - a. Introduction of Faculty and students
  - b. Instructor Resume
  - c. Comments
2. IS-860.a National Infrastructure Protection Plan (NIPP)
  - a. Protecting and ensuring the resiliency of the critical infrastructure and key resources of the United States is essential to the Nation's security, public health and safety, economic vitality, and way of life.
  - b. The purpose of this course is to present an overview of the National Infrastructure Protection Plan (NIPP).

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### Course Syllabus

- c. The NIPP provides the unifying structure for the integration of existing and future CIKR protection and resiliency efforts into a single national program.
3. IS-821 Critical Infrastructure and Key Resources Support Annex
  - a. The National Response Framework (NRF) presents the guiding principles that enable all response partners to prepare for and provide a unified national response to disasters and emergencies.
  - b. The NRF, Support Annexes describe how Federal departments and agencies, the private sector, volunteer organizations, and nongovernmental organizations (NGOs) coordinate and execute the common support processes and administrative tasks required during an incident.
  - c. The actions described in the Support Annexes are not limited to particular types of events, but are overarching in nature and applicable to nearly every type of incident.
  - d. This course provides an introduction to the Critical Infrastructure and Key Resources (CIKR) Support Annex to the NRF.
4. The Office of Infrastructure Protection
  - a. State what the specific risks are in their locations and to their industries;
  - b. Discuss how to coordinate with others within and across sectors and share vital information; and
  - c. Explain how to prepare, protect, and respond
  - d. List the six programmatic areas of IP.
5. IS-906: Workplace Security Awareness
  - a. This course provides guidance to individuals and organizations on how to improve the security in your workplace.
  - b. We live in a world of ever-increasing risk.
  - c. No workplace – be it a construction site, office building, factory floor, or retail store – is immune from these threats.
  - d. Risks threaten worker safety, employee morale, and your company's economic livelihood.
6. IS 907 Active Shooter: What You Can Do
  - a. An active shooter is an individual actively engaged in killing or attempting to kill people in a confined and other populated area.
  - b. In most cases, active shooters use firearms and there is no pattern or method to their selection of victims.
  - c. Active shooter situations are unpredictable and evolve quickly.
  - d. All employees can help prevent and prepare for potential active shooter situations.
7. IS-890.a, Introduction to the Interagency Security Committee (ISC)
  - a. Introduction to the Interagency Security Committee (ISC) is the first course in the ISC Web-based

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### **Course Syllabus**

- training series.
8. The purpose of this series of courses is to provide Federal facility security professionals, engineers, building owners, construction contractors, architects, and the general public with basic information pertaining to the ISC and its facility security standards, processes, and practices.
  9. Critical Infrastructure Resource Guide
    - a. The Critical Infrastructure Working Group
    - b. Agriculture and Food
    - c. Banking and Finance
    - d. Chemical Sector
    - e. Commercial Facilities
    - f. Communications
    - g. Critical Manufacturing
    - h. Dams
    - i. Defense Industry Base
    - j. Emergency Services
    - k. Energy
    - l. Government Facilities
    - m. Healthcare and Public Health
    - n. Information Technology
    - o. National Monuments and Icons
    - p. Nuclear Reactors, Materials, and Waste
    - q. Postal and Shipping
    - r. Transportation Systems
    - s. Water

### **Grade Scale**

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

### **Course Evaluation**

Final grades will be calculated according to the following criteria:

1. Chapter Tests 25%
2. Assignments 25%
3. Module Discussions 10%
4. Final Project 40%

### **Course Policies**

1. This course is time-bound, structured and completed totally online
2. During Week 1: there will be activities to familiarize the learner with the learning environment
3. You must log onto Blackboard at a minimum of 3 to 4 times a week.
4. You must participate in online discussions each week.
5. Students will be required to complete weekly unit tests. Tests will be graded within 24 hours of completion.
6. Students research a critical infrastructure topic, and compose a four page report and a 15 slide Power Point or You Tube video to support the findings of the report. The report will be double spaced and written in Arial 12 font. Footnotes are required
7. Students may call instructor during office hours.
8. The Instructor will respond to e-mail communication within 24 hours Monday through Friday
9. Students will have one week to complete online assignments and tests.
10. If you wish to drop a course, the student is responsible for initiating and completing the drop process.

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11. If you do not complete assignments and tests or fail to drop the course, you will earn an 'F' in the course.

### **Technical Requirements (for courses using Blackboard)**

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

[https://help.blackboard.com/en-](https://help.blackboard.com/en-us/Learn/9.1)

[us/Learn/9.1](https://help.blackboard.com/en-us/Learn/9.1) 2014 04/Student/015 Browser Support/015 Browser Support Policy A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

### **Disabilities Statement**

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the online resource:

<http://www.lit.edu/depts/stuserv/special/defaults.aspx>

### **Student Code of Conduct Statement**

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at [www.lit.edu](http://www.lit.edu) or obtained in print upon request at the Student Services Office.