

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

### Course Objectives

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

1. Identify local area critical infrastructures (SCANS: C5, C6)
2. Evaluate security measures (SCANS: C5, C6, C7, F2, F7)
3. Report methods to revise security of protection assets (SCANS C8, C16)
4. Demonstrate mitigation of a critical infrastructure threat (SCANS C9, C12, C14)
5. Conduct information collection using the Internet and library resources (SCANS C3, C5, C8, F1)
6. Present written and oral reports on findings (SCANS: F2, F7)

### SCANS Skills and Competencies

Beginning in the late 1980's, the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) conducted extensive research and interviews with business owners, union leaders, supervisors, and laborers in a wide variety of work settings to determine what knowledge workers needed in order to perform well on a job. In 1991 the Commission announced its findings in *What Work Requires in Schools*. In its research, the Commission determined that "workplace know-how" consists of two elements: foundation skills and workplace competencies.

### Course Outline

Approved: 1/13

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## Course Syllabus

- A. Syllabus
  - 1. Introduction of Faculty and students
  - 2. Instructor Resume
  - 3. Comments
- B. IS-890.a, Introduction to the Interagency Security Committee (ISC)
  - 1. Explain why the ISC was formed.
  - 2. Describe the history, vision, and mission of the ISC.
  - 3. Identify key historical ISC documents.
  - 4. Describe the composition of the ISC.
  - 5. Describe the functions of the ISC and ISC subcommittees and working groups.
  - 6. Identify how ISC standards are used to identify needed security requirements and enhancements.
  - 7. Describe the steps to identify, implement, and test the effectiveness of security requirements for a Federal facility.
- C. IS-860.a National Infrastructure Protection Plan (NIPP)
  - 1. Protecting and ensuring the resiliency of the critical infrastructure and key resources.
  - 2. The United States is essential to the Nation's security, public health and safety, economic vitality, and way of life.
  - 3. The purpose of this course is to present an overview of the National Infrastructure Protection Plan (NIPP).
  - 4. The NIPP provides the unifying structure for the integration of existing and future CIKR protection and resiliency efforts into a single national program.
- D. IS-821 Critical Infrastructure and Key Resources Support Annex
  - 1. 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.
  - 2. 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.
- E. The Office of Infrastructure Protection
  - 1. State what the specific risks are in their locations and to their industries;
  - 2. Discuss how to coordinate with others within and across sectors and share vital information; and
  - 3. Explain how to prepare, protect, and respond
  - 4. List the six programmatic areas of IP.
- F. IS-906: Workplace Security Awareness
  - 1. This course provides guidance to individuals and organizations on how to improve the security in your workplace.
  - 2. We live in a world of ever-increasing risk.
  - 3. No workplace – be it a construction site, office building, factory floor, or retail store – is immune from these threats.
  - 4. Risks threaten worker safety, employee morale, and your company's economic livelihood.
- G. IS 907 Active Shooter: What You Can Do
  - 1. An active shooter is an individual actively engaged in killing or attempting to kill people in a confined and other populated area.
  - 2. In most cases, active shooters use firearms and there is no pattern or method to their selection of victims.
  - 3. Active shooter situations are unpredictable and evolve quickly.
  - 4. All employees can help prevent and prepare for potential active shooter situations.

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- H. IS-890.a, Introduction to the Interagency Security Committee (ISC)
  - 1. Introduction to the Interagency Security Committee (ISC) is the first course in the ISC Web-based training series.
  - 2. 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.
- I. Critical Infrastructure Resource Guide
  - 1. The Critical Infrastructure Working Group
  - 2. Agriculture and Food
  - 3. Banking and Finance
  - 4. Chemical Sector
  - 5. Commercial Facilities
  - 6. Communications
  - 7. Critical Manufacturing
  - 8. Dams
  - 9. Defense Industry Base
  - 10. Emergency Services
  - 11. Energy
  - 12. Government Facilities
  - 13. Healthcare and Public Health
  - 14. Information Technology
  - 15. National Monuments and Icons
  - 16. Nuclear Reactors, Materials, and Waste
  - 17. Postal and Shipping
  - 18. Transportation Systems
  - 19. 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 Requirements

- 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. Complete the assignment and test.
- 5. You must participate in online discussions each week.
- 6. Prerequisite - Completed the Online Orientation and answered 5+ questions correctly on the Online Learner Self-Assessment:  
<http://www.lit.edu/depts/DistanceEd/OnlineOrientation/OOStep2.aspx>
- 7. Students will be required to complete weekly unit tests. Tests will be graded within 24 hours of completion.
- 8. 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

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9. Students may call instructor during office hours.
10. **Do not leave voice mail due to Instructor's hearing disability.**
11. The Instructor will respond to e-mail communication within 24 hours Monday through Friday

### Course Policies

1. Students will have one week to complete online assignments and tests.
2. Tests will be automatically grade and recorded in Blackboard.
3. Your final grade will be the average of your weekly assignments, tests, discussions, and the Final Project.
4. If you wish to drop a course, the student is responsible for initiating and completing the drop process.
5. If you do not complete assignments and tests or fail to drop the course, you will earn an 'F' in the course.

### Technical Requirements

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

<http://kb.blackboard.com/pages/viewpage.action?pageId=71860304>

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>

### Course Schedule (subject to change)

Week	Topics	Reference
1	Course Overview, meet instructor, CI/KR <a href="http://www.dhs.gov/files/programs/gc_1189168948944.shtm">http://www.dhs.gov/files/programs/gc_1189168948944.shtm</a> Test and Identify Critical Infrastructures in Southeast Texas.	Materials provided online.
2	IS-860 National Infrastructure Protection Plan (NIPP) <a href="http://training.fema.gov/EMIWeb/IS/IS860a.asp">http://training.fema.gov/EMIWeb/IS/IS860a.asp</a> MLK Holiday January 21	
3	IS-821 Critical Infrastructure and Key Resources Support Annex <a href="http://training.fema.gov/emiweb/is/is821.asp">http://training.fema.gov/emiweb/is/is821.asp</a>	
4	The Office of Infrastructure Protection <a href="http://www.dhs.gov/about-office-infrastructure-protection">http://www.dhs.gov/about-office-infrastructure-protection</a>	
5	IS-921 Implementing Critical Infrastructure Protection Programs	

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	<a href="http://training.fema.gov/EMIWeb/IS/IS921.asp">http://training.fema.gov/EMIWeb/IS/IS921.asp</a>
6	Agriculture and Food, Banking and Finance, and Chemical Sectors <a href="http://www.asisonline.org/toolkit/cirg.pdf">http://www.asisonline.org/toolkit/cirg.pdf</a>
7	Retail Security Awareness: Understanding the Hidden Hazards <a href="http://training.fema.gov/EMIWeb/IS/is912.asp">http://training.fema.gov/EMIWeb/IS/is912.asp</a>
8	IS-906: Workplace Security Awareness <a href="http://emilms.fema.gov/is906/index.htm">http://emilms.fema.gov/is906/index.htm</a>
9	<b>Spring Break</b> March 11-15
10	IS 907 Active Shooter: What You Can Do <a href="http://emilms.fema.gov/IS907/index.htm">http://emilms.fema.gov/IS907/index.htm</a>
11	IS-890.a, Introduction to the Interagency Security Committee (ISC) <a href="http://training.fema.gov/EMIWeb/IS/is890a.asp">http://training.fema.gov/EMIWeb/IS/is890a.asp</a>
12	Food and Agriculture, Banking and Finance, Chemical, and Commercial Facilities <a href="http://www.asisonline.org/toolkit/cirg.pdf">http://www.asisonline.org/toolkit/cirg.pdf</a>
13	Communications, Critical Manufacturing, Dams, Information Technology <a href="http://www.asisonline.org/toolkit/cirg.pdf">http://www.asisonline.org/toolkit/cirg.pdf</a>
14	Emergency Services, Energy, Government Facilities, Healthcare and Public Health, National Monuments and Icons <a href="http://www.asisonline.org/toolkit/cirg.pdf">http://www.asisonline.org/toolkit/cirg.pdf</a>
15	Defense Industry Base, Nuclear Reactors, Postal and Shipping, Transportation Systems, and Water <a href="http://www.asisonline.org/toolkit/cirg.pdf">http://www.asisonline.org/toolkit/cirg.pdf</a>
16	Final Project Due May 6

**Contact information varies by instructor.**