

## Standardized Course Outline

### Section I

**SUBJECT AREA AND COURSE NUMBER:** Emergency Management Response 103

**COURSE TITLE:** Emergency Management Response- Living in a Hazardous Environment

**COURSE CATALOG DESCRIPTION:** This course will discuss the elements of living in a hazardous environment. The sometimes subtle, warning signs of potential disaster elements will be introduced with focus on specific vulnerabilities and risk analysis specific to area localities.

**LECTURE HOURS PER WEEK: 3**

**CREDIT HOURS: 3**

**LAB HOURS PER WEEK: NA**

**PREREQUISITE: None**

### SECTION II

#### **A. SCOPE**

This course will discuss the elements of living in a hazardous environment. The sometimes subtle, warning signs of potential disaster elements will be introduced with focus on specific vulnerabilities and risk analysis specific to area localities. Elements within the state of Connecticut and individual communities will be investigated in a manner to allow participants to identify specific areas of concern. Participants will be expected to develop proactive activities in an attempt to recognize hazards and divert such emergencies. Participants will also develop plans to respond to natural and man-made disasters, utilizing all resources within their own communities including post incident response plans. Examples of specific disasters are the following but not limited to:

- ❖ Natural disasters
  - Tornados
  - Hurricanes
  - Avalanches
  - Flooding Earthquakes
  - Drought
- ❖ Civil disorder
- ❖ Fires

- ❖ Hazardous materials
- ❖ Terrorism/WMD
- ❖ Transportation accidents
- ❖ Industrial accidents
- ❖ Nuclear power plants

**B. REQUIRED WORK:** Reading assignments, participation in class discussions and activities.

**C. ATTENDANCE AND PARTICIPATION:** Regular attendance and class participation are expected. Specific instructions are listed in class syllabus.

**D. METHODS OF INSTRUCTION:** Lectures, class discussion, sharing of written assignments, tabletop exercises and guest speakers.

**E. OBJECTIVES, OUTCOMES, and ASSESSMENT**

The following objectives and outcomes represent the department's core requirements for student achievement

LEARNING OBJECTIVES:	LEARNING OUTCOMES:	ASSESSMENT METHOD:
To demonstrate Understanding of	Students will	As measured by
1. Responsibility for his/her own learning	<ul style="list-style-type: none"> <li>➤ Attend class regularly and promptly</li> <li>➤ Complete all assignments</li> <li>➤ Takes initiative in seeking assistance when necessary</li> </ul>	<ul style="list-style-type: none"> <li>➤ Attendance records</li> <li>➤ Assignment records</li> <li>➤ Class/lab participation</li> </ul>
2. Specific environmental vulnerability to disaster	<ul style="list-style-type: none"> <li>➤ Discuss the subtleties of the environment as it relates to disaster preparedness</li> <li>➤ Understand the concepts man-made versus natural disasters</li> <li>➤ Develop a risk analysis outline specific to communities of interest.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Testing and exams on subject matter</li> <li>➤ Participation in class discussions</li> <li>➤ Group collaborative learning</li> <li>➤ Participation and development of table top exercises</li> </ul>
3. The need for exercise	<ul style="list-style-type: none"> <li>❑ Discuss the</li> </ul>	<ul style="list-style-type: none"> <li>➤ Participation in</li> </ul>

<p>activities in all phases disasters</p>	<p>components of the Emergency Management Response to specific natural and man-made disasters.</p> <ul style="list-style-type: none"> <li>□ Plan approaches to incidents such as Weapons of Mass Destruction and Terrorism as it relates to communities of interest</li> </ul>	<p>class discussions</p> <ul style="list-style-type: none"> <li>➤ Group collaborative learning</li> <li>➤ Testing on subject matter</li> <li>➤ Participation and development of table top exercises</li> </ul>
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**F. TEXTS AND MATERIALS:**

Required text will be: To be determined

**G. INFORMATION TECHNOLOGY:** Typical classroom with multifunctional audiovisual equipment to include PowerPoint capabilities and the use of the health careers laboratory area.

## **LIVING IN A HAZARDOUS ENVIRONMENT**

- Course Introduction, Purpose and Objectives
  - 1 hr.
  - Overview of Emergency Management System
  
- Avalanches
  - .5 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazards
  - Mitigation and Preparedness Measures and Programs
  
- Civil Disorder
  - 1 hr.
  - Characteristics and Effects
  - Distribution in the U.S., Nature of
  - Preparedness Measures and Programs
  
- Coastal Erosion
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation/Preparedness/Response Measures and Programs
  
- Dam Breaks
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Citizen Awareness and Preparedness
  
- Drought
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  
- Dust Storms
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  
- Earthquakes
  - 3 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Response and Recovery
  - Citizen Awareness and Preparedness
  
- Epidemics and Infestations
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs

- Fires (Urban)
  - 3 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Flooding
  - 3 hrs.
  - Causes of Flash and Conventional Flooding
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Response and Recovery
  - Public Awareness and Preparedness
  
- Hail
  - .5 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Hazardous Materials
  - 3 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Response and Recovery
  - Public Awareness and Preparedness
  
- Heat Waves
  - .5 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Public Awareness and Preparedness
  
- Hurricanes, Cyclones and Tropical Storms
  - 3 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Response and Recovery
  - Public Awareness and Preparedness, and Response
  
- Industrial Accidents
  - 3 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Response and Recovery
  - Public Awareness and Preparedness
  
- Landslides
  - 1 hr.

- Causes, Characteristics and Effects
- Distribution in the U.S., Nature of the Hazard
- Mitigation and Preparedness Measures and Programs
- Public Awareness and Preparedness
  
- Lightning
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Nuclear Power Plant Accidents
  - 2 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Power Failures
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Radon
  - .5
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Citizen Awareness and Preparedness
  
- Soil Subsidence
  - .5
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  
- Terrorism
  - 3 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Weapons of Mass Destruction
  
- Tornadoes
  - 2 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
  
- Transportation Accidents
  - 3 hrs.
  - Causes, Characteristics and Effects

- Distribution in the U.S., Nature of the Hazard
- Mitigation and Preparedness Measures and Programs
- Tsunamis
  - .5
  - Causes, Characteristics, and Effects
  - Tsunami-prone areas of the U.S.
  - Warning Systems, Preparedness Efforts, Insurance
  - Public Awareness and Preparedness
- Volcanoes
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
- Wildfires
  - 1 hr.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
- Windstorms
  - 1.5 hrs.
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Public Awareness and Preparedness
- Winter Storms
  - Causes, Characteristics and Effects
  - Distribution in the U.S., Nature of the Hazard
  - Mitigation and Preparedness Measures and Programs
  - Citizen Awareness and Preparedness
- Mid-Term, Final and Other Exams