

EMGT C130: HAZARD MITIGATION

Item	Value
Top Code	210530 - Industrial and Transportation Security
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

This course introduces students to the concept of hazard mitigation and its role in reducing long-term risks to life and property from hazard events. It covers mitigation principles in the context of emergency/disaster management and the role of the emergency management worker as one of the four essential phases of the emergency management cycle. Topics include a history of hazard mitigation in the U.S., risk assessment, hazard types, mitigation strategies, and planning activities with the goal of decreasing hazard impact on local communities. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Given a case study, analyze the role that hazard mitigation plays within a comprehensive emergency management system.
2. Given a current disaster scenario, explain the basic principles of hazard mitigation as well as the techniques used in hazard mitigation planning.
3. Given federal and/or state regulatory requirements, differentiate the hazard mitigation planning roles/responsibilities of government, industry, and citizens in local communities.

Course Objectives

- 1. Trace the evolution of hazard mitigation in the United States.
- 2. Analyze the increase in frequency and impact of disasters both nationally and internationally.
- 3. Name the phases of comprehensive emergency management.
- 4. Evaluate the link between hazard mitigation and community resilience and sustainability.
- 5. Explain the emergency management concepts of hazard, vulnerability and risk analysis.
- 6. Describe the importance of the role of local government in the field of hazard mitigation.
- 7. Discuss how mitigation issues are interrelated with preparedness, response and recovery.
- 8. Recognize the role of the private sector in hazard mitigation.
- 9. Apply social marketing techniques to hazard mitigation promotion.
- 10. Examine the key legal issues surrounding hazard mitigation and disaster management.
- 11. List five general categories of mitigation tools.

Lecture Content

A History of Hazard Mitigation in the United States What is Mitigation. Early History - Flood Control Acts The Lack of Government Policy Earthquake Hazard Reduction The Stafford Act Focus on National Security Mitigation and Emergency Management Mitigation Goals and Objectives Types of Mitigation Federal Mitigation Programs Mitigation Strategies Resiliency and Sustainability Type of Hazards Natural Hazards Man-Made Hazards Intergovernmental Relations and Hazard Mitigation The Burden of Local Communities The Local Hazard Mitigation Team The States Role Roles and Responsibilities Public-Private Partnerships in Mitigation The Importance of Mitigation to Protect a Community Developing Public-Private Partnerships Funding U.S. Small Business Administration Risk Communications Defining Risk Risk Perception Risk Acceptance and Response Communicating Risk Knowing the Community Social Marketing Hazard Mitigation Planning Planning Overview Participation Assessment Instruments Goals and Objectives Action Plans Maintenance Process

Method(s) of Instruction

- Lecture (02)
- DE Online Lecture (02X)

Instructional Techniques

This course may be taught using multiple methods of support including classroom, video, audio, multi-media, and online strategies. Strategies may include lectures; cooperative learning groups; written homework assignments; self-paced independent study using textbooks, video lessons, audio segments, demonstrations or discussions; simulations; role playing; case studies; problem-solving exercises; debates; presentations by students to software or online systems; presentations to the instructor or to other students; research projects; and journal reflections.

Reading Assignments

Students will complete assigned readings from course textbook.

Writing Assignments

Students will submit two written reports based upon an analysis of case studies and complete essays for the midterm and final examinations.

Out-of-class Assignments

Students will complete reading assignments indicated above, study for quizzes, midterm and final, and prepare two written projects based upon an analysis of case studies.

Demonstration of Critical Thinking

Critical thinking is demonstrated through essays on midterm and final and two reports based upon an analysis of case studies.

Required Writing, Problem Solving, Skills Demonstration

Students will complete writing assignments for the midterm, final, and two reports based upon an analysis of case studies. Through these assignments student will demonstrate the skills necessary to recognize hazards and mitigation strategies for their assigned agency or community.

Eligible Disciplines

Industrial safety: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Sandler, D., Schwab, A.K. Hazard Mitigation and Preparedness: An Introductory Text for Emergency Management and Planning Professionals, 3rd ed. New York: Routledge, 2021

Manuals Resources

1. Federal Emergency Management Agency. National Mitigation Investment Strategy Mitigation Framework Leadership Group, U.S. Department of Homeland Security , 08-01-2019 2. Federal Emergency Management Agency. Hazard Mitigation Assistance Division Year in Review, U.S. Department of Homeland Security , 12-31-2021

Other Resources

1. Coastline Library 2. Assigned articles, Internet research and class hand-outs. 3. Access to internet either in a Coastline Community College Lab or outside the college. For Classroom based class and Hybrid Class, a minimum of 2 gigabyte USB memory stick.