

EPT 280 Building Resilient Communities

Course Description:

This course covers concepts needed to design and implement strategies in protecting communities from disasters, including decreasing community vulnerability and increasing community resiliency. Topics include disclosure of hazards, lifeline systems, evacuation planning, infrastructure location, analysis of building codes, public policy, natural environmental proactive systems, and educational programs. Upon completion, students should be able to develop a basic disaster-resilient community plan.

Course Hours Per Week: Class, 3; Lab, 0, Credit: 3

Prerequisites: None

Corequisites: None

Course Objectives:

- a. Understand the principles of emergency management and related standards that serve as the foundation for building disaster resilient communities.
- b. Understand how to develop disaster plans for Mitigation, Preparedness, Response, and Recovery.
- c. Relate the importance of private resilience to community resilience.
- d. Understand the role of the emergency manager in developing a comprehensive emergency management program especially as it relates to disaster resiliency.
- e. Understand the role and responsibilities of public officials and the public in the planning process.
- f. Have a better understanding of public policies, laws, regulations and various codes that drive the emergency management program.
- g. Have a general knowledge of the importance of leadership and advocacy for emergency management.

Outline of Instruction:

- I. Opportunities and Challenges for Building a Community-Based Institutional Infrastructure
 - a. Disaster Preparedness among Community-Based Organizations
 - b. Serving the most vulnerable
 - c. Safe schools for the community
- II. Opportunities and Challenges for Economic Recovery
 - a. Disaster Resilience: exploring all hazards and cross cultural perspectives
 - b. Community resilience and cultural toolkits
 - c. Social Capital after a Disaster

- III. Opportunities and Challenges for Economic Recovery
 - a. Natural Disasters, Climate Change, Recovery, and sustainability
 - b. Information commodification and social capital
 - c. Role of information and communication technologies in disaster rehabilitation
- IV. Opportunities and Challenges for Public Health and Safety
 - a. Challenges and Opportunities for change
 - b. Challenges of terrorism
 - c. Assault on the Community's fabric
- V. Opportunities and Challenges for Housing and Housing Policy
 - a. Housing reconstruction
 - b. Building earthquake resilient communities
- VI. Opportunities and challenges for Public-Private Partnerships
 - a. Bridging the Public-Private Partnership in Disaster Management
 - b. Building Disaster-Resilient Communities – the public-private partnership
 - c. Public-private Partnership in Community Reconstruction
- VII. Opportunities and Challenges for Disaster Mitigation
 - a. Developing disaster plans for mitigation, preparedness, response, and recovery
 - b. Private resilience responses against collective recovery
 - c. Preplanning for recovery

Required Textbook and Materials:

Textbooks to be selected by instructor

Statement of Students with Disabilities:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. If you have a disability that may have some impact on your work in this class and for which you may require accommodations, please contact the Disability Services office by calling 919-536-7207, emailing disabilityservices@durhamtech.edu, or visiting room 10-209 in the Wynn Center (Building 10) for additional information regarding requirements for arranging accommodations.