The University of Iowa – Resilient Infrastructure and Emergency Response Course

Learn the concepts of resilient cities with specific emphasis on the role of infrastructure and the built environment. Understand how to develop vulnerability assessments, hazard mitigation plans and implement specific mitigation strategies. Be prepared to carry out emergency response to various threats, including an understanding of the National Incident Management System (NIMS) framework. Know the steps of disaster recovery and the opportunities that lie within.

Course Information:

1. Overview of Resiliency and how Infrastructure Systems are a part of it

2. Examine the common objectives and synergies of resilience and sustainability using the City Resilience Framework.

3. Overview of Critical Infrastructure Systems

4. Emergency Preparedness
   a. Vulnerability Assessment and Risk Analysis
   b. Hazard Mitigation Plan
   c. Mitigation Concepts
   d. Evacuation Plan
   e. Emergency Response Plan
   f. Debris Management Plan

5. Emergency Response
   a. National Incident Management System - NIMS
   b. Response to Weather Events
      • Ice
      • Snow
      • Rain
      • Wind/Tornado/Hurricane
      • Drought

6. Recovery and Mitigation
   a. Recovery Plans
   b. Opportunities in crisis

The University of Iowa is accredited by the Higher Learning Commision.

For more information contact:

Rick Fosse, P.E.
University of Iowa College of Engineering
Dept. of Civil and Environmental Engineering
4105 Seamans Center for the Engineering Arts and Sciences
Iowa City, Iowa, 52242
Phone: (319) 335-5526
Email: rick-fosse@uiowa.edu

Additional Information: http://civilhawks.org/

Update: 9/29/17

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