

**THE UNIVERSITY OF AKRON**

The utilization of technology and data will be demonstrated with the assignment and final project.  
Utilization of case studies will be demonstrated with the assignment and final project.

**Course outline:**

- Topic I: Introduction to Hazards
  - Hazards Classification
  - Theory and Concepts
- Topic II: Geological and Hydrological Hazards
  - Volcanoes
  - Earthquakes and Tsunami
  - Wildfires
  - Floods
- Topic III: Biological Hazards
  - Diseases, Epidemics, and Pandemics
- Topic IV: Atmospheric Hazards
  - Fundamentals of Weather and Climate
  - Thunderstorms and Tornadoes
  - Midlatitude Cyclones
  - Hurricanes
- Topic V: Anthropogenic Hazards
  - Chemical Incidents, Hazardous Materials, and Environmental Hazards
  - Weapons of Mass Destruction

**Grading Scale:**

A	94%	488.80-520.00 points
A-	90-93%	468.00-488.79 points
B+	88-89%	457.60-467.99 points
B	83-87%	431.60-457.59 points
B-	80-82%	416.00-431.59 points
C+	78-79%	405.60-415.99 points
C	73-77%	379.60-405.59 points
C-	70-72%	364.00-379.59 points
D+	68-69%	353.60-363.99 points
D	63-67%	327.60-353.59 points
D-	60-62%	312.00-327.59 points
F	59.9%	311.99 points

**COURSE RATIONALE:**

This course will cover the basic theories of various hazards and emergency management. Emergency managers need to understand the basic scientific

principles in order to communicate with experts and the public. This will aid in decision making along with expanding the student's knowledge. Furthermore, the course is designed to promote critical thinking through applications which is a basis for learning rather than memorizing material.

**Special Accommodations:**

In pursuant to University policy #3359-38-01, The University of Akron recognizes its responsibility for creating an institutional atmosphere in which students with disabilities have the opportunity to be successful. Any student who feels he/she may need an accommodation based on the impact of a disability should contact the Office of Accessibility at 330-972-7928 (v), 330-972-5764 (tdd) or [access@uakron.edu](mailto:access@uakron.edu). The office is located in Simmons Hall Room 105.