

The University of Akron
Disaster Science & Emergency Services
Emergency Management & Homeland Security

Course Name: Disaster Management Technology

Course Number: 2235: 406

Course Credit: 3 credit hours

Prerequisites: 2235:305

Course Description:

Provides an overview of the various types of technology utilized in disasters, emergency management and homeland security.

Topics include communications, watches, warnings, and operational challenges.

Program Outcomes:

Upon completion of this course, the student will gain a better understanding of:

1. the scientific processes of various technologies
2. uses of technology in disasters, emergency management, and homeland security
3. various types of communication methods
4. different software and hardware
5. databases and modeling
6. professionalism in Emergency Management
7. operational and ethical challenges
8. utilization of case studies

Course Outline:

Topic I: Technology as a Tool in Emergency Management

Topic II: Uses of Technology

Topic III: Voice Communications

Topic IV: Data Communications

Topic V: Watches and Warnings

Topic VI: Software and Hardware

Topic VII: Remote Sensing

Topic VIII: Databases

Topic IX: Modeling

Topic X: Operational Challenges of Technology

Assessment:

The University of Akron and specifically the Emergency Management and Homeland Security program assesses student learning at several levels: general education, program, and classroom. The goal of these assessment activities is to improve student learning. As a student in this course, you will participate in various assessment activities. Students have an active role in course and program assessment projects designed to strengthen and constantly improve student learning and educational outcomes.

Grading Scale

Grade	Percent Required
A	93-100%
A-	90-92%
B+	87-89%
B	83-86%
B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	63-66%
D-	60-62%
F	0- 59%