

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

**COURSE NUMBER – COURSE NAME
EADM 220 – Emergency Management and Response**

Created by: Dr. M. O'Connor

Updated by: Jay Roorbach

School of Science, Health, and Criminal Justice

Department: Center for Criminal Justice, Intelligence, and Cybersecurity

Semester/Year: Fall 2020

A. **TITLE:** Hazard Assessment and Mitigation

B. **COURSE NUMBER:** EADM 220

C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3

Lecture Hours: 3 per week

Lab Hours: per week

Other: per week

Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** Yes No

E. **GER CATEGORY:** None: Yes: GER
If course satisfies more than one: GER

F. **SEMESTER(S) OFFERED:** Fall Spring Fall & Spring

G. **COURSE DESCRIPTION:**

The course presents methods for communities and organizations to recognize and respond to disaster or emergency situations. It encompasses the strategies and tactics used by emergency managers and other responders and focuses on expanded proactive measures to safeguard lives and assets from natural or man-made emergencies and disasters. The course includes modules covering emergency operations planning, assessing effects and responding to high risk hazards, decreasing operational interruptions, emergency response and support functions, and maintaining community lifelines.

H. **PRE-REQUISITES:** None Yes If yes, list below:

CO-REQUISITES: None Yes If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

By the end of this course, the student will be able to:

<u>Course Student Learning Outcome</u> <i>[SLO]</i>	<u>Program Student Learning Outcome</u> <i>[PSLO]</i>	<u>GER</u> <i>[If Applicable]</i>	<u>ISLO & SUBSETS</u>	
Identify the diverse set of public and private stakeholders involved in emergency and disaster response at the local, state and Federal levels including their roles and responsibilities.	Students will develop and maintain a comprehensive perspective of emergency and disaster management.		4-Soc Respons ISLO ISLO	GL Subsets Subsets Subsets
Identify how hazards are detected and the types of warning systems and methods of alerting a population of an impending hazard or disaster.	Students will collect, analyze, and synthesize information in making critical judgements, some of which can be time sensitive in emergencies or disasters.		2-Crit Think ISLO ISLO	CA Subsets Subsets Subsets
Explain why damage assessment is important for disaster response and recovery operations and produce several different types of damage assessments.	Students will develop written communications related to emergency management and present projects in multiple formats.		1-Comm Skills ISLO ISLO	W Subsets Subsets Subsets
Identify emergency response and support functions and demonstrate how they are activated in response to an incident.	Students will work individually and/or collaboratively to address challenges related to emergency mitigation. Preparedness, response, and recovery.		4-Soc Respons ISLO ISLO	T Subsets Subsets Subsets
Describe community lifelines and develop strategies for sustaining them during an emergency or disaster.	Students will develop and maintain a comprehensive perspective of emergency and disaster management.		4-Soc Respons ISLO ISLO	GL Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets

			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
			ISLO ISLO ISLO	Subsets Subsets Subsets Subsets

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

*Include program objectives if applicable. Please consult with Program Coordinator

J. **APPLIED LEARNING COMPONENT:** Yes No

If YES, select one or more of the following categories:

- | | |
|---|--|
| <input type="checkbox"/> Classroom/Lab | <input type="checkbox"/> Civic Engagement |
| <input type="checkbox"/> Internship | <input type="checkbox"/> Creative Works/Senior Project |
| <input type="checkbox"/> Clinical Placement | <input type="checkbox"/> Research |
| <input type="checkbox"/> Practicum | <input type="checkbox"/> Entrepreneurship |
| <input type="checkbox"/> Service Learning | (program, class, project) |
| <input type="checkbox"/> Community Service | |

K. **TEXTS:**

National Response Framework. (2019). Washington, DC: Department of Homeland Security.

L. **REFERENCES:**

None

M. **EQUIPMENT:** None Needed:

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Exams
- Quizzes
- Discussion Boards
- Papers
- Participation

P. **DETAILED COURSE OUTLINE:**

I. INTRODUCTION TO EMERGENCY MANAGEMENT AND RESPONSE

A. Consequences of emergencies and disasters, including detrimental results and degree of impact.

B. Goals of emergency management during disaster response.

C. Functions that are performed during the response phase of disaster.

II. STAKEHOLDER ENGAGEMENT FOR EMERGENCY RESPONSE

A. Diverse set of public or private stakeholders involved in disaster response at the local level including their roles and responsibilities.

B. Diverse set of public or private stakeholders involved in disaster response at the state level including their roles and responsibilities.

C. Diverse set of public or private stakeholders involved in disaster response at the federal level including their roles and responsibilities.

D. Private sector engagement in emergency response.

III. HAZARD DETECTION AND WARNING SYSTEMS

A. Detection of hazards during the initial period of the response phase.

- B. How response is implemented when a hazard threatens or a disaster has actually occurred.
- C. Importance of the warning function in disaster response operations.
- D. Types of warning systems and methods of alerting a population of an impending hazard or disaster.

IV. EVACUATION, SHELTERING AND SEARCH AND RESCUE

- A. Why evacuation is needed in times of emergencies or disasters.
- B. How people behave during evacuation.
- C. Processes and methods utilized to successfully evacuate populations, and their respective strengths and weaknesses.
- D. Issues that must be considered when opening shelters.
- E. Process of opening and maintaining shelters.

F. Types of search and rescue operations.

V. TRIAGE, MASS CARE, MASS FATALITY

- A. Nature of injuries that result from disaster and the need for emergency medical assistance.
- B. How people care for the injured and review other issues to consider regarding the medical aspects of disaster response.
- C. Importance, processes and ethics of triage.
- D. Disaster Medical Assistance Teams (DMAT), Disaster Mortuary Assistance Teams (DMORT).

VI. VOLUNTEER AND DONATIONS MANAGEMENT

- A. Spontaneous volunteers.
- B. Potential problems volunteers may create for first responders and emergency managers.
- C. Typical problems associated with disaster donations.

VII. DAMAGE ASSESSMENT AND DEBRIS MANAGEMENT

- A. Different types of damage assessments as well as the distinct methods for conducting them.
- B. Types of debris that are produced in various disasters.

VIII. COMMUNITY LIFELINES

- A. Identify and explain community lifelines.
- B. Strategies for sustainment of community lifelines.

Q. LABORATORY OUTLINE: None Yes