

SAN DIEGO STATE UNIVERSITY
College of Health and Human Services
Graduate School of Public Health
Division of Epidemiology and Biostatistics

PH331 Emergency Preparedness and Disaster Response
Spring 2007
Course Syllabus

Day: Tuesday

Time: 4:00pm-6:40pm

Place: HH 212

Schedule #:

Units: 3

Instructor: L. S. Gresham, Ph.D., MPH

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Making a Difference in a Diverse Society: Leadership for a New Millenium. There is great interconnectedness between all public health management functions and emergency management. You may already appreciate that all decisions and actions pertaining to community planning, economic development, public safety, and public health are believed to have a connection for emergency. In addition, state and federal law places more responsibility for emergency management on local officials. Therefore, public health professionals need to have a basic primer in emergency management. From the standpoint of hazard management and mitigation, and with respect to the development of sustainable communities, public health professionals need to see the central and critical role that emergency management function plays in determining the quality of community life.

Organization of the Course

This course consists of several integrated modes of learning: lecture/class discussion, engagement, e-learning, and authentic case-based studies culminating in collaborative group presentations. The students will be taken through material on basic concepts of interagency biopreparedness activities and emergency response within the US Public Health System and San Diego County in particular. The material will include an overview of natural hazards, man-made disasters, mitigation, planning and recovery, and research findings that have been translated into policies and programs that have advanced sustainable hazard mitigation efforts.

The student is asked to do the required reading and exploration of guided websites on their own.

Course Material

Required

- Access to web, assigned readings and webcasts

Optional

- *Handbook of Biosurveillance*, Elsevier

Course Goals

Students who successfully complete this course should be able to

- Describe basic public health preparedness roles in response to disasters and the occurrence of disease clusters.
- Interpret scenarios specific to bioterrorism and natural disasters, and to formulate recommendations for response and remediation.
- Explain the components of complex disasters and humanitarian assistance.
- Apply epidemiologic theory in designing disease prevention strategies, in developing evaluation studies, in formulating policy, and in furthering professional practice.
- Demonstrate a basic command of the concepts, terminology, and theories associated with the subject matter presented in the course materials.

Overall Objectives

1. Help students better understand the social, political, economic, and human impact “emergencies” have on our communities.
2. Familiarize students with the laws, policies, regulations, and arrangements of the intergovernmental world of disaster management.
3. Sensitize students to the critical linkage of emergency management, especially with respect to hazard mitigation, to the concept of sustainable community development.
4. Produce a cadre of students that demonstrate a basic understanding of the intergovernmental structure of emergency management and a familiarity with basic policies and regulations covered in the course materials.

Requirements

Although attendance is not required, in-class student presentations, exercises and assignments generated from in-class activities will be graded and contribute to the overall course score.

In-class and external exercises	40%
Annotated bibliography	25%
Scenario group presentation	35%

Grading Standards and Interpretation of Grades:

- A = Superior (93-100)
- A- = 90-92
- B+ = 88-89
- B = Adequate (82-87)
- B- = 79-81
- C = Less than adequate (60-78)
- F = Fail (<60)

Annotated Bibliographies

Students are asked to do outside reading to further familiarize themselves with this subject matter. Students will give a team class presentation accompanied by an annotated bibliography (summaries and analysis of readings). We will discuss and explain this assignment in our class discussions.

INDEPENDENT ASSIGNMENTS (outside of class)

1. View webcast at <http://www.mediasite.com/Default.aspx>
 - a. *NYC Public Health Pre and Post 9/11*, by Marcelle C. Layton, MD (80 minutes)
 - b. Prepare a 1 page summary of this webcast incorporating the topics and concepts that have been discussed in class to date (public health security, disease investigation, surveillance, and public health management).
2. Rent the following movie and watch by April 24, 2007
 - a. *Outbreak* (1995), directed by Wolfgang Petersen, starring Dustin Hoffman, Rene Russo, Morgan Freeman.
 - b. Prepare a 1 page summary of this movie incorporating the topics and concepts that have been discussed in class to date.

Schedule Subject to Change

<u>Date</u>	<u>Lecture/Discussion Topic</u>	<u>Comments</u>
Jan 23	Introduction Public Health Security “Dirty War” in-class movie, 90 min - HBO film	
Jan 30	Biological/Chemical/Nuclear Threats	
Feb 6	Local preparedness and response, bioagents continued Surveillance	
Feb 13	Group Exercise: Outbreak Investigation Public Health Law/Forensic Epidemiology Public Health Laboratories	
Feb 20	Direct Relief International	<i>NYC assignment due</i>
Feb 27	Chemical Threats CDC HRSA Response Plan Vulnerable Populations	
Mar 6	National Response Plan (NRP) (Mr. Smyser) Standardized Emergency Management System/NIMS Strategic National Stockpile (SNS)	<i>Bibliography Due</i>
Mar 13	GROUP PROJECT WORK	
Mar 20	Media/Risk Communication Red Cross	Group Presentation <i>Oakland Fires</i>
Mar 27	SPRING BREAK	
Apr 3	Agroterrorism & Drills	

Apr 10	Psychological Impact Ethics	Group Presentations <i>Avian Influenza</i>
Apr 17	Community Assessments	Group Presentations <i>Hazardous Waste Fire, NC</i>
Apr 24	Ethics	Group Presentations <i>Chernobyl Disaster</i> <i>PLUS – Outbreak Summary Due</i>
May 1	Atlantic Storm Interactive Module	Group Presentations <i>Intentional Salmonellosis Contamination</i>
May 8		Group Presentations <i>SARS</i>

GROUP PRESENTATIONS

Please sign up for one disaster event under either “preparedness” or “response”

PREPAREDNESS	RESPONSE
Hurricane Katrina	Hurricane Katrina
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
SARS	SARS
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
Hazardous Waste Fire, North Carolina	Hazardous Waste Fire, North Carolina
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
Intentional Salmonellosis Contamination (1984)	Intentional Salmonellosis Contamination (1984)
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

Chernobyl Disaster (1984)	Chernobyl Disaster (1984)
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
Avian Influenza	Avian Influenza
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.