

# Public Health Preparedness & Emergency Response

*Center for Infectious Diseases & Emergency Readiness  
UC Berkeley School of Public Health  
Syllabus for PH 257B, CC# 76219, 3 units  
Fall 2008, Modified 2008-11-18*

## Core faculty

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## Schedule

<i>Date</i>	<i>Wk</i>	<i>Topics</i>	<i>Lecturer</i>
09/02/08	1	Overview and the role of public health in disasters	Tomas Aragón
09/09/08	2	Natural disasters and intentional mass threats	Tomas Aragón
09/16/08	3	Public health emergency incident management system	Cindy Lambdin
09/23/08	4	Infectious disease emergency preparedness	Tomás/Erica Pan
09/30/08	5	Emergency management systems, planning, and exercises	Michael Petrie
10/07/08	6	Public health ethics in disaster preparedness and response	Harvey Kayman
10/14/08	7	Environmental health threats after chemical disasters	Rupali Das
10/21/08	8	Post-disaster sampling, surveys, and rapid health assessments	Wayne Enanoria
10/28/08	9	Disaster mental health preparedness and response	Jeff Coady
11/04/08	10	Mass care, emergency assistance, housing, and human services	Howard Backer
11/11/08		HOLIDAY --- NO CLASS	
11/18/08	11	Disaster preparedness for vulnerable populations	Ana-Marie Jones
11/25/08	12	Essentials of crisis leadership and crisis risk communication	Tomás Aragón
12/02/08	13	Personal and community disaster preparedness	Students
12/09/08	14	Final Exam & Turn in term project/paper	

## **Course description**

This one semester course is an intensive introduction to public health emergency preparedness and response, and cover the following topic areas: the role of public health in disasters; natural disasters and severe weather; intentional mass threats (CBRNE); biosurveillance: detecting and monitoring public health threat; post-disaster sampling, surveys, and rapid needs assessments; public health emergency incident management system; emergency operations planning and exercises; infectious disease emergency readiness; environmental health emergency readiness; mental health emergency readiness; special needs and vulnerable populations; public health crisis leadership and risk communication; conducting outbreaks investigations; disaster medicine and mass casualty care; and personal and community disaster preparedness

## **Target audience**

This course is intended for public health graduate students, public health practitioners (health officers, deputy health officers, epidemiologists, public health nurses, environment health specialists, bioterrorism coordinators, emergency management specialists), and physicians.

## **Course prerequisites**

Completion of one semester of graduate public health curriculum, or in public health practice.

## **Course objectives**

By the end of this course participants will be able to

- Describe the role of public health before, during, and after public health emergencies
- Describe the major public health threats from natural, accidental, and intentional causes
- Describe the practical aspects of personal, community, and infrastructure preparedness
- Describe the core competencies in bioterrorism and emergency readiness for all public health workers
- Describe the five major management functions of the incident command system
- Describe the essentials of public health preparedness and response, including infectious diseases, outbreak investigation, environmental health, mental health, special needs and vulnerable populations, and emergency operations planning and exercises

## **Course format**

Lecture, discussion, and student presentations.

## **Course enrollment and fee**

UC Berkeley students should register for Public Health 257B, CCN 76219. CIDER follows the UC Berkeley academic calendar. Non-registered students who want to receive academic credit will need to register and pay the UC Extension fee (see <http://www.unex.berkeley.edu/info/concur.php>).

## **Course credit/Grading**

For registered UC Berkeley/Extension students: Units: 3; Grading: Letter or S/U. Grading will be based on personal preparedness kits (10% – see A below), student project (30% – see B below), student presentation (10% – see C below), and final exam (50% – open book; last day of class). Satisfactory (S) or Passed (P) is at a minimum level of B.

## **Course location and schedule**

Schedule: Tuesdays, 10am-12pm; Location: 2304 Tolman Hall

## **Student requirements**

### **A. Personal disaster preparedness plan and kit**

Visit <http://www.72hours.org>

- Make a plan (required)
- Build a kit (get started)
- Get involved (see Term Project)

### **B. Term project**

Students must complete one of the following:

- Community Health Emergency Response Module, or
- Assessment of disaster preparedness plans for a community-based organization, or
- Participation in and evaluation of a disaster emergency operations exercise, or
- Prepare and pilot test a post-disaster epidemiologic rapid health assessment, or
- Complete and critically evaluate a Community Emergency Response Team (CERT) training
- Complete a project relevant to disaster preparedness for vulnerable populations

### **C. Public Health Emergency Readiness (PHER) Weekly Report**

Present, analyze, and discuss (10 min) public health emergency preparedness or response aspects of a current or recent event. Distribute 1 or 2 readings one week before your presentation.

## **Readings**

See required/recommended reading list at course site: <http://sites.google.com/site/medepi/php>

## Public Health Emergency Readiness (PHER) Weekly Report

<i>Date</i>	<i>Wk</i>	<i>Student presenters</i>	<i>Lecturer</i>
09/02/08	1		
09/09/08	2	Karen Zukor	
09/16/08	3		
09/23/08	4	Ryan Chan	
09/30/08	5	Andrea Johnson	
10/07/08	6	Celia Golden	
10/14/08	7	Hideto Saito	
10/21/08	8	Sarah Rahman Casey Tsui	
10/28/08	9	Lee Ann Dalton Yolanda Tejada	
11/04/08	10	Mike McMillan Dawn Krytusa	
11/11/08		HOLIDAY – NO CLASS	
11/18/08	11	Barbara Brown	
11/25/08	12	Simon Chu Jherna Balany Maya Chakko	
12/02/08	13	Kim Searcy John Grau	
12/09/08	14		