

**UNIVERSITY OF MARYLAND,
BALTIMORE COUNTY
(Emergency Health Service Department)**

EHS 320 - Disaster Management
MIEMSS/UMBC EHS Department
Fall, 1995
Jeffrey T. Mitchell, Ph.D.

Catalog Description:

EHS 0320 - Disaster Management - 3 credits
Mondays, 4:00 p.m. - 6:30 p.m. (SS 305)

Requirements, Assignments and Grading:

- 10%Individual Hazard Assessment - Due **October 9, 1995**
- 10%Class Project - Create final table top exercise (All class members are required to participate) - Due **December 4, 1995**
- 30%Term Paper - In-Depth review of the literature on a specific disaster of your choosing (one person per disaster) - Due **November 20, 1995**
- 25%Mid-Term Exam - **October 16, 1995**
- 25%Final Exam - **December 11, 1995** (*Failure to participate in final drill costs a letter grade on final*)

CLASS ATTENDANCE IS REQUIRED. Patterns of absences and lateness will be reflected negatively in the final grade.

- A = 92 - 100
- B = 91 - 80
- C = 70 - 79
- D = 60 - 69
- F = 59 and below

Required Text

Stoffel, S. *Blueprint for Community Emergency Management: A Text for Managing Emergency Operations*. Emergency Response Institute, Olympia, WA.

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- Sept. 11 Introduction, assignments, requirements, standards. Key terms, background and historical perspectives and an overview of disaster management, natural/manmade disasters, hazard analysis.
- Sept. 18 Pre Plan Exercise (table top)
- Sept. 25 Four Phases of Emergency Management: Preparedness, Response, Recovery, Mitigation.
- Oct. 2 Designing the disaster response
Rehearsal for doom
- Oct. 9 Incident operations and command
- Oct. 16 Special consideration in disasters. Fire, EMS, law enforcement, assess, call for help, triage, rescue, control, coordinate.

MID-TERM

- Oct. 23 Table Top Exercise
- Oct. 30 Current issues in disaster
The effective critique
- Nov. 6 Emotional aftershocks of disaster
- Nov. 13 Hazardous materials
- Nov. 20 Aircraft disasters
- Nov. 27 Picking up the pieces psychologically
- Dec. 4 Table Top Exercise (practice)
- Dec. 11 **FINAL EXAM and Final Table Top Exercise**

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY
DEPT. OF EMERGENCY HEALTH SERVICES SYLLABUS

DISASTER AND REFUGEE HEALTH SERVICES

EHS 632

Instructor: Rick Bissell, PhD
Research Assistant Professor of Emergency Health Services
Director of Disaster Health Studies,
National Study Center for Trauma and EMS

Description: This course examines health needs and techniques for providing health care to populations displaced or affected by disasters or war. The goal of the course is to prepare students to manage disaster health response preparedness and planning, and to organize and manage disaster and refugee health care provision. The focus is both domestic and international.

Course Requirements: Students will be required to complete weekly readings and participate in course discussions. Students will conduct a disaster exercise, in group, for which they will be graded. They will also be required to write a disaster or refugee health services plan for a jurisdiction of choice, and present an oral synopsis of it.

Grading: 1/4 participation, 1/4 disaster exercise performance, and 1/2 written plan. The disaster exercise grade will be assigned to the entire group, and will be judged on the ability of the group to immediately recognize the affected community's needs and organized an effective response to those needs. The written plan will be judged 1/3 on writing (clarity, grammar, presentation); 1/3 on content (complete understanding of the affected population's probable health needs and effective assignment of resources to meet those needs), and; 1/3 on oral presentation (clarity, conciseness, organization, speaking style).

Books and Required Readings: There are two required books and required readings from myriad other sources. The books are:

Auf der Heide, Erik: DISASTER RESPONSE: PRINCIPLES OF PREPARATION AND COORDINATION. Baltimore: CV Mosby Company, 1989.

READINGS AND TOPICS

Week	Topic
1.	Introduction: Overview of the Magnitude of Disasters and Refugee-Producing Events in Terms of Their Impact on Human Populations.
	Readings: M. Fahey: A History of Disaster Medicine, in Baskett: Medicine for Disasters, pp 3-15.
	Auf der Heide: Chapters 1 & 2, pp 1-32.
	B.E. Harrell-Bond: Imposing Aid: Emergency Assistance to Refugees, forward and preface.
	Stephanie Simmonds, et al: Refugee Community Health Care, Chapter 1, pp 1-16.
	W. Nick Carter: Disaster Management: A Disaster Manager's Handbook, Chapter 1, pp 1-8.
	Frederick C. Cuny: Disasters and Development, Chapter 1, pp 11-20.
2.	Overview of Human Response to Disasters.
	Readings: George W. Baker and Dwight W. Chapman: Man and Society in Disaster, New York, Basic Books, 1962, pp 7-22; 51-221.
3.	Overview of Disaster Effects on Human Health: Earthquakes.
	Readings: S.W.A. Gunn: Earthquakes, in Baskett: Medicine for Disasters, pp 285-290
	R.A. Bissell: pp 6-8 in The Post-Catastrophe Environment and pp 16-38 in Likely Medical Problems and Response Needs, in Management of the Medical Response to Mass Casualties in a Catastrophic Disaster, USPHS, 1992.
	C. de Ville de Goyet and M.F. Lechat: Health Aspects in Natural Disasters, in Tropical Doctor, October 1976, pp 152-157.
	Harrison C. Spencer, et al: Disease Surveillance and Decision-Making After the 1976 Guatemala Earthquake, in The Lancet, 23 July 1977, pp 181-184.
	Roger I. Glass, et al: Earthquake Injuries Related to Housing in a Guatemalan Village, in Science, Vol 197, 12 August 1977, pp 638-643.
	Raymond L. Coultrip: Medical Aspects of US Disaster Relief Operations in Nicaragua, in Military Medicine, November 1974, pp 879-883.

C. de Ville de Goyet, et al: Earthquake in Guatemala: Epidemiologic Evaluation of the Relief Effort, in Bulletin of the Pan American Health Organization, Vol X, No. 2, 1976, pp 95-109.

4. Overview of Disaster Effects on Human Health: Hurricanes, Floods, Tsunamis and Tornadoes.

Readings: J. Orłowski: Floods, Hurricanes and Tsunamis, in Baskett: Medicine for Disasters, pp 291-307.

R.A. Bissell: Delayed-Impact Infectious Disease After a Natural Disaster, in The Journal of Emergency Medicine, Vol 1, 1983, pp 59-66.

R.A. Bissell: pp 8-9, and 38-40 in Management of the Medical Response to Mass Casualties in a catastrophic Disaster, *op cit*.

Lincoln Chen: Chapters 2 & 3 in Disaster in Bangladesh, Oxford University Press, 1973.

Richard Aghababian and Josette Teuscher: Infectious Diseases Following Major Disasters, in Annals of Emergency Medicine, 21:4, April 1992.

Roger Glass, et al: Injuries from the Wichita Falls Tornado: Implications for Prevention, in Science, 207: pp 734-738.

5. Overview of Disaster Effects on Human Health: Human-Caused Disasters and War

Readings: Richard M. Garfield and Alfred I. Neugut: Epidemiologic Analysis of Warfare, in Journal of American Medical Association, Vol 266, No. 5, 7 Aug 1991, pp 688-692.

I. Haywood: Terrorism - General Aspects, Aetiology and Pathophysiology (pp 391-405), and Terrorism - Management and Forensic Aspects (pp 406-423) in Baskett: Medicine for Disasters.

*Guest Speaker: Jerry Overton, MS, Executive Director of the Richmond Ambulance Service: "Medical Care in Wartime Sarajevo."

6. The Incident Command System

Auf der Heide: Chapter 7: The Incident Command System

*Guest Speaker: Chief Roger Simmonds, Anne Arundel County Fire Department

7. Common Disaster Response Approaches in industrialized countries.

Auf der Heide: Chapters 4, 5, 6, 8, and 9

P.E.A. Savage: Disaster Planning in Developed Countries, in Baskett, *op cit.*, pp 102-115.

8. Common Disaster Response Approaches in Developing Countries.

R.A. Bissell, et al: Post-Preparedness Disaster Response in Costa Rica, submitted to Prehospital and Disaster Medicine, 1993.

M.E. Silverstein and Jessie Hackes: Disaster Planning in Developing Countries, in Baskett, *op cit.*, pp 116-131.

9. Construction of a Disaster Health Plan

Chapter 5: Methods of Planning for Response to Catastrophic Disasters, in Bissell, et al, *op cit.*, pp 72- 87.

10. Overview of Refugee Health Care History and Logistics

Chapter 1: Basic Considerations in Refugee Medicine, in Medical Care for Refugees, by Richard Sandler and Thomas C. Jones, New York: Oxford University Press, 1987, pp 3-12.

Chapters 2-6 in Simmonds, et al, pp 17-165.

11. Refugee Care in a War Zone: Example of Iraqi Kurds

Chapters 6-10 in Simmonds, et al, pp 166-248.

Guest speaker: Frederick Burkle, MD, MPH, Departments of Pediatrics and Emergency Medicine, University of Hawaii.

12. Group Disaster Exercise Planning Period

No readings. Class groups will use the time to prepare for the next week's exercise.

13. Group Disaster Exercise

14. Oral Presentation of Disaster/Refugee Health Plans