

Introduction to Environmental Health Sciences (EHS 100)

MPH for Health Professionals

Fall 2002

Saturdays: 1:00 to 5:00 pm

Instructor: Michael Collins (T: 310-206-6730; F: 310-206-9903; email:
mdc@ucla.edu)

Texts: T. McMichael. Human Frontiers, Environments and Disease, Cambridge, 2001
EHS Reader, Fall 2002

Session 1: 21 September	Introduction to environmental health sciences History of environmental health sciences Population and ecosystems Biotic effects on the environment Agriculture Energy
Session 2: 5 October	Environmental management Environmental policy Environmental microbiology
Session 3: 12 October	Ecological aspects of environmental health
Session 4: 26 October	Principles of toxicology Carcinogenesis Teratogenesis Risk assessment Optional papers due
Session 5: 9 November	Water pollution and health Solid and hazardous wastes Radiological health
Session 6: 23 November	Exposure assessment Occupational health Food
Session 7: 14 December	Air pollution Global environmental change Final papers due

EHS 100: Suggested reading
MPHHP
Fall 2002

McMichael Text:

- Session 1: Chapter 1
Session 2: Chapter 6 (pp. 160-164), Chapter 3 (pp. 74-85), Chapter 4
Session 3: Chapter 11 is relevant but not assigned by Ambrose
Session 4: Chapter 7
Session 6: Chapter 5, Chapter 9
Session 7: Chapter 10, Chapter 12

EHS Reader:

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|------------|-----------------------------|-------------|
| Session 1: | Smith D. (1994) | pp. 2-16 |
| | Smith K. et al. (1999) | pp. 17-28 |
| | McMichael and Powles (1999) | online |
| | Lutz et al. (2001) | pp. 29-31 |
| Session 2: | Dailey et al. (2000) | pp. 32-33 |
| | Balmford et al. (2002) | pp. 34-37 |
| | Malakoff (2002) | pp. 38-39 |
| | Levin and Andreasen (1999) | pp. 40-41 |
| | Levin et al., (1999) | pp. 42-45 |
| | Shears (2001) | pp. 46-51 |
| | Breiman and Butler (1998) | pp. 52-57 |
| | Brown (2001) | pp. 58-61 |
| Session 3: | Harvell et al. (2002) | pp. 62-66 |
| Session 4: | Weber et al. (2002) | pp. 67-72 |
| | Polifka and Friedman (2002) | pp. 73-81 |
| Session 5: | Zuccato et al. (2000) | pp. 82-83 |
| | Lepkowski (1998) | pp. 84-86 |
| | Pruss et al. (2002) | pp. 87-92 |
| | Williams (2002) | pp. 93-99 |
| Session 6: | Hinds (2002) | pp. 100-101 |
| | Marshall (1999) | pp. 102-103 |
| | Tilman et al. (2001) | pp. 104-107 |
| | Trevavas (2002) | pp. 108-110 |

	Stewart et al. (2000)	pp. 111-120
Session 7:	Epstein and Leaf (1998)	pp. 121-134
	Wigley and Raper (2001)	pp. 135-138
	Molina and Molina (1998)	pp. 139-149

Assignments: The only required assignment for the quarter will be a research paper on a topic from the field of environmental health sciences. The goal of this paper will be to find some environmental health issue of interest to you, and to examine the issue in depth using a number of sources from the primary literature. In order to disseminate information on the topic of your paper, initiate the research process early in the quarter, and to get feedback from your classmates and the instructor, short oral reports (2 to 4 minutes) on your topic will occur during Sessions 4 and 5. Please refer to references in your paper by the last name of the first author and the date of the publication.

Optional assignment: A shorter research paper can be submitted on the date of Session 5. The goal of this optional assignment is to give you an opportunity to see what kind of feedback you will receive on your paper before the end of the course. This paper is expected to be less comprehensive than the final paper. The amount of your final grade for this paper can be anything from 0 to 50 % as determined by the author.

Class discussion
 Late assignment
 Incompletes
 Attendance