

MISSISSIPPI VALLEY STATE UNIVERSITY
Department of Natural Sciences & Environmental Health

COURSE NUMBER: EH 500

COURSE NAME: Principles of Environmental Health

OFFICE LOCATION: Sci. & Tech 2254

INSTRUCTOR: Dr. Mark A. Dugo

OFFICE PHONE: (662) 254-3378

CLASS MEETING TIME: online*

CLASS MEETING LOCATION: Blackboard

OFFICE HOURS: TBA

EMAIL: madugo@mvsu.edu

CLASS MEETING DAYS: online*

Required Textbook: Textbook: Essentials of Environmental Health. Jones and Bratlett Learning, (2012).

Suggested Reading: Basic Environmental Health; by Annalee Yassi, Tord Kjellström, Theo de Kok, Tee Guidotti. Oxford University Press. ISBN-10: 019513558X. ISBN-13: 978-0195135589

Credit Hours: 3

Prerequisites: None

Course Description:

An introduction to the principles of environmental health sciences, in terms of content and methodologies for addressing environmental health issues, globally, nationally and regionally.

Course Goals:

1. To discuss environmental health problems that influence our lives.
2. To identify types of associations found between environmental hazards and health outcomes.
3. To discuss the processes of environmental toxicology.
4. To identify steps involved in risk assessment and methods for human exposure assessment.
5. To identify methods used to control vector-borne and zoonotic disease.
6. To identify hazards related to air and water quality.
7. To discuss the significance of the occupational environment for health.

Health coverage of recent environmental controversies, such as use of bisphenol A in plastics is also highlighted. Background of the field and tools of the trade are emphasized (environmental epidemiology, environmental toxicology, and environmental policy and regulation).

Environmental diseases (microbial agents, ionizing and non-ionizing radiation) are highlighted. Applications and domains of environmental health (water and air quality, food safety, waste disposal, and occupational health) are emphasized. With a straightforward, non-technical approach; the course has included many examples and illustrations of environmental health issues. Perfect for the beginning student as well as the experienced health professional, each chapter concludes with study questions and exercises to engage the reader in further study.

Course Outline

- Chapter 1 – Introduction: The Environment at Risk
- Chapter 2 – Environmental Epidemiology
- Chapter 3 – Environmental Toxicology
- Chapter 4 – Environmental Policy and Regulation
- Chapter 5 – Zoonotic and Vector-Borne Disease
- Chapter 6 – Toxic Metals and Elements
- Chapter 7 – Pesticides and other Organic Chemicals
- Chapter 8 – Ionizing and nonionizing Radiation
- Chapter 9 – Water Quality
- Chapter 10- Air Quality
- Chapter 11 – Food Safety
- Chapter 12 – Solid and Liquid Wastes
- Chapter 13 – Occupational

Criteria for Grading:	<u>% of Final Grade</u>
<u>Test/Assignment</u>	
Test 1 and Mid-Term	30%
Final Exam (Comprehensive)	20%
Assignments/Quizzes	20%
Term Paper	20%
Participation/Cooperation	10%

IMPORTANT NOTE:

*The Mid-Term and the Final Exam are face to face requirements for ALL EH majors who take courses on campus. These exams will be scheduled during the week of mid-terms and finals, respectively. This face to face requirement is necessary in order to assess your mastery of EH competencies per our accreditation through the National Environmental Health Science & Protection Accreditation Council (EHAC). The mid-term and final exam will be scheduled for **6:00pm October 3rd and December 5th, respectively**. Please make plans in your schedule ahead of time.

Grading Scale:

<u>% of Total Points</u>	<u>Final Grade</u>
90.0-100.0%	A
80.0-89.9%	B
70.0-79.9%	C
60.0-69.9%	D
<60.0%	F

Academic Integrity:

Academic integrity is critical to the successful completion of this course. For all writing assignments, you must run your complete document through a plagiarism checker and include the result of your plagiarism report with an electronic signature.

MAKE-UP POLICY: It is the responsibility of the student to email or meet with the instructor during office hours to discuss any missed assignments or tests. A valid excuse slip should be submitted upon return to class. If tests are not made up within the allotted time frame, the grade will become a zero. NO EXCEPTION.

SERVICES FOR STUDENTS WITH DISABILITIES

Mississippi Valley State University is committed to providing reasonable accommodations for students with a documented disability. If you feel you are eligible to receive accommodations for a covered disability (medical, physical, psychiatric, learning, vision, hearing, etc.) and would like to request it for this course, you must be registered with the Services for Students with Disabilities (SSD) program administered by University College. It is recommended that you visit the Disabilities Office located inside the EMAP Computer Lab in the Technical Education (IT) Building to register for the program at the beginning of each semester. If you are determined to be eligible after your confidential consultation, you will be provided with a Memo of Accommodations that must be submitted to each of your instructors.

For more information or to schedule an appointment, please contact Mr. Billy Benson, Jr. via phone or email at 662-254-3005 or billy.benson@mvsu.edu.

****This document does not constitute a contract with the University. It contains guidelines. Please be advised that the contents of this course syllabus are subject to changes at the discretion of the Instructor.