

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

HLTH 505

PRINCIPLES OF ENVIRONMENTAL HEALTH

COURSE DESCRIPTION

The course is a study of environmental factors including biological, physical and chemical factors that affect the health of a community.

RATIONALE

Environmental health science is one of the five basic areas of knowledge needed to practice public health as defined by the Council on Education for Public Health. New environmental threats and concerns present their own danger to the ecology of the planet and to the health of the human inhabitants. Humanity's God-ordained role as stewards is not to destroy, but rather to work and keep the earth (Genesis 1:28, 2:15). This course is designed to help prepare Christian students in public health take a leadership role in protecting the environment to safeguard human wellness.

I. PREREQUISITE

For information regarding prerequisites for this course, please refer to the [Academic Course Catalog](#).

II. REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource(s) for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

III. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Microsoft Word
- D. *The Holy Bible* (any version)

IV. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- A. Recognize potential environmental health risks.
- B. Describe the direct and indirect human, ecological, and safety effects of major environmental and occupational agents.
- C. Describe genetic, physiological, and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.
- D. Describe federal and state regulatory programs, guidelines, and authorities that control environmental health issues.

- E. Recognize current environmental risk assessment methods.
- F. Explain the general mechanisms of toxicity in eliciting a toxic response to various environmental exposures.
- G. Discuss various risk management and risk communication approaches in relation to issues of environmental justice and equity.
- H. Develop a testable model of environmental insult.

V. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and lecture presentations/notes
- B. Course Requirements Checklist

After reading the Course Syllabus and [Student Expectations](#), the student will complete the related checklist found in Module/Week 1.

- C. Discussion Board Forums (8)

Discussion boards are collaborative learning experiences. Therefore, the student is required to provide a thread in response to the provided prompt for each forum. Each thread must be 400–500 words and demonstrate course-related knowledge. Each thread must also contain at least 2 references in current AMA format. In addition to the thread, the student is required to reply to 2 other classmates' threads. Each reply must be 200–250 words and must contain at least 1 reference in current AMA format.

- D. Conservation Effort Presentation

The student will create a 5–10-slide PowerPoint presentation that synthesizes what he/she has learned from the conservation effort chosen as a part of the discussion boards. The student will attempt to convince a lay audience to adopt the chosen conservation effort.

- E. Research Paper

The student will explore a current environmental issue as it relates to human health. He/she will write a 15-page research paper that includes a thorough discussion of the science behind the issue as well as the theory and possible policies for mitigation of the associated problems. This assignment will be submitted in 3 parts:

1. Topic Submission

The topic will be chosen from a list provided by the instructor and must be submitted. The student will submit his/her topic via a Discussion Board Forum.

2. Works Cited

A bibliography of at least 10 scholarly references must be submitted.

3. Final Draft

The final draft of the paper must be submitted via SafeAssign.

- F. Quizzes (8)

The student will complete 8 quizzes covering the Textbook Readings for the modules/weeks in which they are assigned. Each quiz will consist of 15 multiple-choice and true/false questions per chapter covered. Each quiz will have a 1-hour time limit, except for Quiz 7 which will have a 1-hour and 30-minute time limit.

VI. COURSE GRADING AND POLICIES

A. Points

Course Requirements Checklist	10
Discussion Board Forums (8 at 55 pts ea)	440
Conservation Effort Presentation	100
Research Paper	
Topic Submission	5
Works Cited	50
Final Draft	150
Quizzes (7 at 30 pts ea, 1 at 45 pts)	255
Total	1010

B. Scale

A = 940–1010 A- = 920–939 B+ = 900–919 B = 860–899 B- = 840–859
 C+ = 820–839 C = 780–819 C- = 760–779 D+ = 740–759 D = 700–739
 D- = 680–699 F = 0–679

Special circumstances (e.g. death in the family, personal health issues) will be reviewed by the instructor on a case-by-case basis.

C. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport

COURSE SCHEDULE

HLTH 505

Textbooks: Nadakavukaren, *Our Global Environment: A Health Perspective* (2011).
 Nadakavukaren, *Study Guide to Accompany Our Global Environment* (2011).
 Schaeffer, *Pollution and the Death of Man* (2011).

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
1	Nadakavukaren: chs. 1–2 Study Guide: chs. 1–2 Schaeffer: Appendices A–B 1 presentation 1 lecture note	Course Requirements Checklist Class Introductions DB Forum 1 Quiz 1	10 0 55 30
2	Nadakavukaren: chs. 3–4 Study Guide: chs. 3–4 Schaeffer: ch. 1 1 presentation 1 video 1 lecture note	DB Forum 2 Research Paper Topic Submission Quiz 2	55 5 30
3	Nadakavukaren: chs. 5–6 Study Guide: chs. 5–6 Schaeffer: ch. 2 1 presentation 1 lecture note	DB Forum 3 Quiz 3	55 30
4	Nadakavukaren: chs. 7–8 Study Guide: chs. 7–8 Schaeffer: ch. 3 1 presentation	DB Forum 4 Research Paper Works Cited Quiz 4	55 50 30
5	Nadakavukaren: chs. 9–10 Study Guide: chs. 9–10 Schaeffer: ch. 4 1 presentation	DB Forum 5 Conservation Effort Presentation Quiz 5	55 100 30
6	Nadakavukaren: chs. 11–12 Study Guide: chs. 11–12 Schaeffer: ch. 5 1 presentation	DB Forum 6 Quiz 6	55 30
7	Nadakavukaren: chs. 13–15 Study Guide: chs. 13–15 Schaeffer: ch. 6 1 presentation	DB Forum 7 Quiz 7	55 45

MODULE/ WEEK	READING & STUDY	ASSIGNMENTS	POINTS
8	Nadakavukaren: chs. 16–17 Study Guide: chs. 16–17 Schaeffer: ch. 7 1 presentation	DB Forum 8 Research Paper Final Draft Quiz 8	55 150 30
TOTAL			1010

DB = Discussion Board

NOTE: Each course module/week begins on Monday morning at 12:00 a.m. (ET) and ends on Sunday night at 11:59 p.m. (ET). The final module/week ends at 11:59 p.m. (ET) on **Friday**.