

STUDENT WARNING: This course syllabus is from a previous semester archive and serves only as a preparatory reference. Please use this syllabus as a reference only until the professor opens the classroom and you have access to the updated course syllabus. Please do NOT purchase any books or start any work based on this syllabus; this syllabus may NOT be the one that your individual instructor uses for a course that has not yet started. If you need to verify course textbooks, please refer to the online course description through your student portal. This syllabus is proprietary material of APUS.

American Public University System

The Ultimate Advantage is an Educated Mind

**School of Health Sciences
PBHE526
Public Health and Environment
Credit Hours: 3
Length of Course: 8 weeks
Prerequisite:**

Instructor Information

Please refer to the Syllabus tab for your instructor's contact information and biography.

Course Description (Catalog)

This course focuses on the need to control factors that are harmful to human life, the requisites of life, water, air, food, space, and shelter. This course will examine methods of controlling agents that cause disease, communicable disease control, wastewater treatment, swimming pool guidelines, solid waste management, insect and rodent control, radiation control, and environmental management.

Course Scope

As a Health Administration course, PBHE526 discusses such topics as national and international health politics, environmental ethics, global diseases, and global pollution.

Course Learning Objectives

After successfully completing this course, students will be able to:

- Evaluate global populations and fundamental principles of environmental health
- Determine the influences climactic changes have on chronic and communicable diseases in our global society
- Discern environmental factors that impact water supply as well as water, air, and soil quality

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- Analyze current legislative measures and policies drafted and implemented to protect and rejuvenate global environmental resources
- Examine the historical significance of OSHA and other environmental safety agencies
- Compare and contrast current innovations in water and waste management to determine their potential impact on public health outcomes
- Prioritize resources to effectively and efficiently address current challenges in the field of environmental health
- Strategize administrative, political, and educational resolutions to current environmental health concerns

Course Delivery Method

This course delivered via distance learning will enable students to complete academic work in a flexible manner, completely online. Course materials and access to an online learning management system will be made available to each student. Online assignments are due weekly as noted on the course outline and can include Forum questions and written assignments. Assigned faculty will support the students throughout this eight-week course.

Course Materials

Required Course Textbook:

Friis, R.H. (2012). *Essentials of environmental health* (2nd ed.). Burlington, MA: Jones & Bartlett Learning.

Academic Writing Requirements:

The School of Health Sciences requires use of APA format and style and all students are encouraged to have a current copy of the *APA Publication Manual*. All written assignments are to be submitted in APA format style unless otherwise noted in the assignment directions.

Web Sites

In addition to the required course texts, the following public domain web sites are useful. Please abide by the university's academic honesty policy when using Internet sources as well. Note web site addresses are subject to change.

- none

Evaluation Procedures

Forums

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Please join the forums each week. Replies must be posted in the week due and replies after the end of the each week will not be graded. The Forums are for student interaction and input should be submitted before the week ends in order to fully participate in the discussions. Students should demonstrate their own knowledge in the forums and avoid copying and pasting from websites.

Guidelines:

- Post the initial response to each forum by 11:55pm, ET, Wednesday.
- Initial responses should be no less than 450-500 words.
- Initial responses are to be original in content and demonstrate a thorough analysis of the topic.
- Reply to at least 2 of your classmates in each forum by 11:55pm, ET, Sunday.
- Replies to classmates should be no less than 200 words.
- Responses to classmates are significant to advance the forum.
- All forums can be accessed in the Forums section of the course.

Assignments

There will be seven (7) weekly assignments that will be due by Sunday each week. The topics will be related to the weekly readings. Each assignment should be at least two pages long and be in proper APA format. **All assignments must be submitted through the assignment link and must have a TurnItIn score before they will be graded.** The TurnItIn score generally takes at least twenty minutes after submitting. Check back before the due date to make sure your submission has a TurnItIn score and that the score is significantly low. Assignments may be resubmitted before the due date with no penalty. Assignments that are not submitted on time and do not have a TurnItIn score will incur penalties for lateness until the assignment is successfully submitted. Please see the grading rubric in the weekly assignments for how you will be graded.

Please review the **Weekly Assignment Grading Rubric** prior to submission. Assignments are due in the Assignment portion of the classroom by **Sunday, 11:55 p.m. EST each week.** Make sure you read and understand the directions and requirements for each assignment. Please ensure you cite your references in APA format with a minimum of 3 references (You may use your textbook as a reference and you should have a minimum of 2 academic outside references). **Assignments submitted late without advance notice will receive a 5% per day late penalty and will not be accepted for grading five (5) days past the due date.**

Project

For this course, students will be required to complete a 15-20 slide PowerPoint presentation (this total does not include title slide, reference slides and graphs, charts or other graphic slides) on an environmental health issue/problem of their choosing. At least seven references

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must be included in proper APA format. The notes section of the PPT presentation must be used for citations and to provide a narrative to the slide (as shown in attached resource). The narrative must add to the slide and not just repeat the information given on the slide. This will be what you record for the audio portion of the assignment. **All final PPT presentation topics must be posted to the appropriate forum space for instructor approval by the end of week 2.** All final PowerPoint presentations must be submitted no later than the **last day of week 7 at 11:55 pm EST.**

See Assignment link for detailed instructions and the grading rubric before submitting your topic for approval in the Week 2 Forum.

Please review the **Final Paper/Project Grading Rubric** prior to submission. Final Paper/Project is due in the assignment portion of the classroom by **Sunday, 11:55 p.m. EST of week 7.** Make sure you read and understand the directions and requirements for each Assignment. Please ensure you cite your references in APA format with a minimum of **7** references (You may use your textbook as a reference and you should have a minimum of 6 academic outside references). **Assignments submitted late without advance notice will receive a 5% per day late penalty and will not be accepted for grading five (5) days past the due date.**

Course Grading Outline

Grading Instrument		Percentage of Final Grade
Forums (8 @ 100 pts each)	800 pts	25%
Introductory Forum Post	10 pts	
Assignments		50%
Weekly Written Assignments (7 @ 100 pts each)	700 pts	
Project		25%
Final PPT Presentation	100 pts	
TOTAL	1610 pts	100%

Course Outline					
Lesson	Topic	Learning Objective(s)	Reading(s)	Assignment(s)	Forum(s)
1	Introduction: The Environment at Risk Environmental Epidemiology	Analyze the potential impacts of population growth upon the environment Examine	Friis: Chapters 1 & 2	Week 2 Assignment: - Environmental Epidemiology	Week 1 Forums: -Introduction - Hot Topics in Environmental Health

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		<p>environmental health concepts and current topics</p> <p>Differentiate examples of epidemiological tools and study designs used in environmental health</p> <p>Evaluate types of associations found between environmental hazards and health outcomes</p>			
Lesson	Topic	Learning Objective(s)	Reading(s)	Assignment(s)	Forum(s)
2	Zoonotic and Vector-Borne Diseases	<p>Attribute the impact of human environmental change on emerging infectious diseases in animals and man</p> <p>Differentiate between vector-borne diseases and zoonotic diseases</p> <p>Distinguish and describe human diseases transmitted by arthropod vectors and those caused</p>	Friis: Chapter 5	<p>Week 2 Assignment:</p> <ul style="list-style-type: none"> - Vector-borne and Zoonotic Diseases 	<p>Week 2 Forum:</p> <ul style="list-style-type: none"> - DDT: Should it be used today? - PPT Topic

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		by zoonoses Evaluate methods used to control vector-borne and zoonotic diseases			
Lesson	Topic	Learning Objective(s)	Reading(s)	Assignment(s)	Forum(s)
3	Environmental Toxicology Water Quality	Apply important terms used in the field of toxicology Examine the steps involved in risk assessments and the methods for human exposure assessment Integrate the hydrological cycle with potential hazards to the aquatic environment Distinguish hazardous substances in drinking water and potable water sources	Friis: Chapter 3 & 9	Week 3 Assignment: - Toxicology	Week 3 Forum: - Bottled or Tap Water?
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
4	Toxic Metals and Elements Pesticides and Other Organic Chemicals	Distinguish between essential and toxic levels of trace metals and mechanisms and prevention methods for exposure of	Friis: Chapters 6, 7, & 12	Week 4 Assignment: - Solid Waste Management	Week 4 Forum: - Integrated Pest Management vs. Organic Farming

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	Solid and Liquid Wastes	<p>humans to toxic metals</p> <p>Evaluate pesticide use and health effects of exposure to pesticides</p> <p>Analyze trends in solid waste management and source reduction</p> <p>Diagram methods for primary, secondary, and tertiary sewage treatment and effects of poor design</p>			
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
5	<p>Ionizing and Nonionizing Radiation</p> <p>Food Safety</p>	<p>Discriminate between ionizing and nonionizing radiation and their sources</p> <p>Evaluate the health effects of exposure to ionizing and nonionizing radiation</p> <p>Integrate measures for preventing foodborne illnesses with major regulations in food safety</p> <p>Demonstrate knowledge on the significance of</p>	<p>Friis: Chapters 8 & 11</p>	<p>Week 5 Assignment: - Hazard Analysis and Critical Control Points</p>	<p>Week 5 Forum: - Are Nuclear Power Plants Safe?</p>

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		microbiological agents and other foodborne illnesses on the world's population			
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
6	Occupational Health Injuries with a Focus on Unintentional Injuries and Death	Analyze the significance of the occupational environment for health including physical and psychological effects of occupational hazards Integrate the methods of prevention with the categories of health impacts for occupationally related diseases Analyze environmental factors associated with injuries and time trends in mortality from injuries Apply a theoretical framework that is used for injury prevention	Friis: Chapters 13 & 14	Week 6 Assignment: - Home Injury Evaluation	Week 6 Forum: - Occupational Safety News
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
7	Environmental Policy and	Analyze principles that guide	Friis: Chapter 4 & 10	Week 7 Assignment:	Week 7 Forum: Global Warming

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	Regulation Air Quality	environmental policy development and the steps in the policy-making process Attribute potential hazards in air quality to health effects associated with air pollution Evaluate the concept of global warming Create a presentation on an environmental health topic of choice		- Final PPT Presentation	
Lesson	Topic	Course Objective(s)	Reading(s)	Assignment(s)	Forum(s)
8	Environmental Policy and Regulation Course Material Review	Apply knowledge gained throughout the course to summarize new concepts learned Integrate information from all chapters Apply concepts learned Analyze environmental policies in place for their successes	Review all chapters	Week 8 Assignment: - Environmental Policy	Week 8 Forum: - Summarize What You Learned -Course Reflections (optional)

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Policies

Please see the [Student Handbook](#) to reference all University policies. Quick links to frequently asked question about policies are listed below.

[Drop/Withdrawal Policy](#)

[Plagiarism Policy](#)

[Extension Process and Policy](#)

[Disability Accommodations](#)