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Environmental Health Issues

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SYLLABUS

Wellstar College of Health and Human Services
Department of Health Promotion and Physical Education
PHE 4300/W01 ENVIRONMENTAL HEALTH ISSUES
SPRING 2022

Course Information

Class meeting time: ONLINE - ASYNCHRONOUS

Modality and Location: Asynchronous online: [D2L BrightSpace Daylight](#)

Syllabus is posted in D2L

Instructor Information

Name: Ping Johnson

Email: pjohnso2@kennesaw.edu

Office Location: CC 3017

Office phone: 470-578-3149

Office Hours: available by appointment

Preferred method of communication: The best way to communicate with me is through D2L Email which helps to keep all information about this course within D2L. I usually check D2L emails daily, and you should expect a reply within 48 hours during the week and longer over the weekends and holidays. If you do not hear from me within the timeframe, it is likely that your message was accidentally marked as read, and please kindly send me a reminder. Avoid using none-KSU email systems, such as gmail, because your email may not reach me.

Office hours: I am happy to meet with students by appointment. Many times a spontaneous or pre-scheduled telephone conference can promptly provide the assistance that you need. Other times, it may be more helpful to schedule a face-to-face virtual meeting. Please email to schedule an appointment.

1. This is an asynchronous online course.
 - a. Use Class Café to interact with your classmates, post a request for help or receive answers for any general questions. ALL students are expected to answer questions from their peers. I will check Class Café often.
 - b. Use Ask the Instructor to ask course related questions.
 - c. For any personal issues that you do not wish to share with the class, use the email tool to send me a private message. Do not use private message for issues the class can resolve.
2. All messages and changes to the course will be broadcast electronically through the D2L Announcement tool.
3. Correspond with colleagues as one would in a business letter by typing out all messages using proper grammar and spelling.

Electronic Communications:

The University provides all KSU students with an “official” email account with the address “students.kennesaw.edu.” As a result of federal laws protecting educational information and other data, **this is the sole email account you should use to communicate with your instructor or other University officials and the account by which they will communicate with you.**

Course Description

This course will examine issues associated with environmental factors and conditions and their impact on the health of individuals and communities. Topics will include environmental epidemiology, toxicology, policy, and regulation as well as environmental agents of disease and the implementation of environmental interventions to improve public health and safety.

Prerequisites: PHE 2100 or IHS 2100

Semester Credits: 3 credit hours

PURPOSE/RATIONALE:

Environmental health focuses on the impact of the Environment on human health. Students in the public health education discipline must understand the environmental factors and conditions that significantly impact health as well as the optimal environmental conditions for improving health and wellbeing.

Knowledge Base: Students will gain an understanding of current environmental issues and concerns and their impact on human health as well as effective strategies, policies, and efforts to address environmental health concerns and threats to health.

Use of Technology: As a leader in the application of technology to higher education, KSU offers both hybrid and online courses in addition to the traditional classroom format. Although this course is designed as a traditional course, much of the course materials and completion of various assignments will be placed online to maximize active interactions between the student and course content, between students and instructor, and among students.

Diversity: It is our vision to create a strong multicultural and diverse educational environment at KSU in order to increase student satisfaction and to promote an understanding and awareness of people from various backgrounds upon graduation. In this way, KSU students will be educated for, and can effectively compete in the global society. (KSU Catalog)

Course Materials

REQUIRED MATERIALS:

1. Friis, Robert H. (2019). Essentials of Environmental Health (3rd ed). Jones & Bartlett Learning, New Sudbury, MA.
 - This course is part of a textbook program called Day One Access. The week before classes begin, you should have received an e-mail from KSU University Stores with pricing and your personalized link to opt-out (please check your junk folder if not in your inbox). You will also receive on one the first day of class and then a reminder email the day prior to the opt-out deadline.
 - You will access the ebook through D2L on the content tab.
 - The purpose of Day One Access is to make sure that you have access to the digital course materials on the first day of class at a highly competitive rate. Everyone enrolled in the course will automatically have access to the digital course materials through drop/add. Those who have not opted-out or dropped the class by January 15th, will receive a charge from the bookstore on their OwlExpress student account the following week. Please check your email for the link to opt out if you choose to do so. The opt out deadline is January 15th at 11:59pm
 - If you opt out, you will not be charged, but you will need to purchased your required material directly from the publisher or other sources.
 - If you need any help, please contact DayOne@kennesaw.edu
2. UN Sustainable Development Goals
3. Additional readings as assigned and supplied by the instructor. Available via D2L.

OPTIONAL MATERIALS:

CDC. (2018) Why Are Environmental Health Services So Important?

CDC. [National Environmental Public Health Tracking](#)

Per Espen Stoknes. TED Talk: [How to transform apocalypse fatigue into action on global warming](#)

Lauren Singer. TEDxTeen: [Why I live a zero waste life](#)

[National Environmental Health Association](#)

[We Act for Environmental Justice](#)

[International Federation of Environmental Health](#)

ADDITIONAL RESOURCES:

Burlage, R.S. (2012). [Principles of Public Health Microbiology](#). Jones & Bartlett Learning, New Sudbury, MA.
Healthy People 2020. (2012). The U.S. Department of Health and Human Services. *Centers for Disease Control and Prevention* (cdcinfo@cdc.gov). 2014.

Maxwell, N.I. (2014). *Understanding Environmental Health (2nd ed)*. Jones & Bartlett Learning, New Sudbury, MA.

Resnik, D.B. (2012). *Environmental Health Ethics*. Cambridge University Press, New York, NY.

Technology requirements:

- Basic computer skills and be able to use Desire2Learn, Microsoft Office, and other related computer programs
- Computer, microphone and webcam
- Reliable internet access. Inability to access the internet is *NOT* an acceptable excuse.
 - *Free WiFi services in public places (coffee shops, restaurants, etc.) are NOT reliable. The computer labs located in the campus housing units/off campus apartments and WiFi services provided are NOT supported by the university ITS and may not always be reliable.*
 - If you choose to use a computer and/or WiFi services other than those supported by the university ITS, you will be responsible if you are unable to (1) submit assignments on time; (2) complete quizzes/exercises on time; OR (3) access any of the course materials.

Learning Outcomes, Learning Activities, and Assessments

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

Goals/Objectives	Activities	Assessments
1. discuss sources of environmental hazards to health and the various ways in which human exposure occurs	Lecture, Discussion, Chapter Quizzes, Assigned Readings, Assignments	Exams, Chapter quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions
2. describe the mechanisms of toxicology and their impact on human health	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter quizzes, Environmental Health Issue Presentations and Discussions
3. identify appropriate risk assessment and management strategies as a means of reducing threats to individuals and communities from adverse environmental conditions	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter quizzes, Environmental Health Issue Presentations and Discussions
4. examine demographic and economic contributors to pollution and the depletion of resources	Lecture, Discussion, Chapter Quizzes, Assigned Readings, Assignments	Exams, Chapter quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions
5. discuss the relationship between economic and community development, technology, culture, and politics on environmental conditions	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions

Goals/Objectives	Activities	Assessments
6. discuss laws and regulatory policies to improve environmental conditions and reduce threats to the environment	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter Quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions
7. recognize environmental and occupational conditions that pose threats to human health and safety	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter Quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions
8. describe the importance of air and water quality as determinants of health	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter Quizzes, My Journey Project, Environmental Health Issue Presentations and Discussions
9. describe the cause and health threats of waterborne and airborne diseases	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter Quizzes, My Journey Project
10. identify how food sources, production, and quality impact human health	Lecture, Discussion, Chapter Quizzes, Readings, Assignments	Exams, Chapter Quizzes, My , Environmental Health Issue Presentations and Discussions Journey Project

Course Requirements and Assignments

ASSIGNMENT	Points	Percent
Self-Introduction	10	1.7
My Journey toward A Sustainable Future	150	25
Chapter quizzes (12 @ 10 pts)	120	20
Exams (2 @ 100 pts)	200	33.3
Environmental Health Issue Presentation (40 pts) & Discussions (80 pts)	120	20
Total	600	100.0

Detailed assignment instructions are provided in the Assignment Guidelines. Any updates and changes will be posted in the D2L Announcement tool. See Assignment Guidelines and Rubrics in D2L for grading criteria.

Other Requirements:

Public Health Education Major and Minor Students:

A critical component to the academic and professional success of a student in the Public Health Education Major and Minor, Department of Health Promotion and Physical Education, is to demonstrate high levels of professional and ethical behavior. Without these traits, regardless of subject matter expertise and skills, students are unlikely to develop into quality health promotion professionals. The formal assessment of Public Health Education Major and Minor students' professional dispositions is completed by departmental faculty every semester in all Public Health Education courses. Further information specific to the HPE Professional Dispositions is provided on the [HPE Departmental Website](#).

Evaluation and Grading Policies

Grading criteria can be found in the Assignment Guidelines. All assignments will be graded within one week after they are due.

Points*	Percent	Grade
540-600	=>90	A

<u>Points*</u>	<u>Percent</u>	<u>Grade</u>
480-539	=>80	B
420-479	=>70	C
360-419	=>60	D
0-359	<60	F

I will round up grades if the final scores are $\geq .5$. For example, an 89.5% is an A, but 89.4% is a B.

Reassessment:

If a request is made for any scored material to be reassessed, please recognize that it will be possible to retain, gain, or lose points in the reassessment process. Make any reassessment requests by D2L email within one (1) week of grading. Please make a follow-up appointment (D2L email, phone, or fax) to meet the instructor during office hours to review the results of any reassessment.

Review of Materials:

All materials will be retained for one (1) month after the start of the following term for review or grade appeal. Contact the instructor for an appointment to review

Course Schedule

Last day to withdraw without academic penalty: Thursday, March 15, 2022, Last Day to withdraw for the Term with a WF grade: Monday, April 25, 2022.

Module	TOPIC/READING	Dates	ASSIGNMENT
Get Ready	D2L Course Overview, Materials, Related Policies, Course Navigation	1/10-11/2022	D2L Orientation and Course Materials, Self-Introduction
1	Ch 1 Introduction: The Environmental at Risk	1/12-21/2022	Ch 1 Quiz, My Journey Parts 1 and 2, Environmental Health Issue Presentation and Discussions
2	Ch 2 Environmental Epidemiology Ch 3 Environmental Toxicology	1/24-2/6/2022	Chs. 2 and 3 Quizzes, Environmental Health Issue Presentation and Discussions
3	Ch 4 Environmental Policy and Regulation Ch 5 Zoonotic and Vector-Borne Diseases	2/7-18/2022	Chs. 4 and 5 Quizzes, Environmental Health Issue Presentation and Discussions, Course Evaluation 1
4	Ch 6 Toxic Metals and Elements	2/21-3/4/2022	Ch 6 Quiz, Environmental Health Issue Presentation and Discussions
	Exam 1 (Chapters 1-6)	3/4/2022	Exam 1: Friday (Chapters 1-6)
	Spring Break	3/5-13/2022	Enjoy and stay safe!
5	Ch 7 Pesticides and Other Organic Chemicals Ch 8 Ionizing and Nonionizing Radiation	3/14-25/2022	Chs. 7 and 8 Quizzes, Environmental Health Issue Presentation and Discussions
6	Ch 9 Water Quality Ch 10 Air Quality	3/28-4/8/2022	Chs. 9 and 10 Quizzes, Environmental Health Issue Presentation and Discussions, Course Evaluation 2
7	Ch 11 Food Safety Ch 12 Solid and Liquid Wastes	4/11-21/2022	Chs 11 and 12 Quizzes, My Journey Parts 1-3, Environmental Health Issue Presentation and Discussions

Module	TOPIC/READING	Dates	ASSIGNMENT
8	Wrap up	4/25-5/6/2022	My Journey all 4 parts
	Exam 2 (Chapters 7-12)	5/6/2022	Exam 2: Friday (Chapters 7-12)

DISCLAIMER:

This syllabus is subject to change as the need arises. Changes will be clearly communicated through D2L Announcement in advance.

Course Policies

Attendance Policy:

The first class starts on the university officially scheduled date and time. **It is the student's responsibility to be registered and attend (i.e., go over D2L course) on the first day of class.** If a student is prevented from registering for the class or attending the first week of classes by reasons beyond the student's control (when the class is closed, financial aid payment is delayed, family emergencies, or other situations deemed appropriate by the instructor), official documentation must be provided and the missed class work must be made up within one week.

You are expected to log into D2L at least once daily during the weekdays and commit 4-5 hours per day on course materials. Frequent and active engagements and interactions with the course materials (i.e., reading/viewing course materials, completing assigned work) and class members (i.e., your peers and me) are imperative for you to achieve the basic objectives of the course and program.

NOTE: Nonattendance in a course does not constitute a drop or withdrawal from the course. Students are responsible for withdrawing from the course.

Disruptive Behavior Policy: The University has a stringent policy and procedure for dealing with behavior that disrupts the learning environment. Consistent with the belief that your behavior can interrupt the learning of others, behavior fitting the University's definition of disruptive behavior will not be tolerated. Refer to the **current Kennesaw State University Undergraduate Catalog** for further detail.

Assignment Policies:

- 1) Each assignment, unless specified otherwise, must be word-processed and is due by the time specified. If you want your work to be graded, submit it the relevant dropbox. If you are late submitting your work, you will receive a 20% point deduction for each day being late.
- 2) Any assignment missed because of legitimate excuses (i.e., sudden illness, family emergencies, military obligation, court-imposed legal obligations, participation in university athletic or scholastic activities, or other situations deemed appropriate by the instructor) may receive a ONE-week extension. Except for emergencies, the instructor must be notified before any foreseeable excusable event occurs. Written documentation from an appropriate authority (e.g., a physician, a commander, a judge, or a director) is required.
- 3) All assignments will be graded within one week after they are due.

Quiz and Exam Policy:

- 1) All chapter quizzes must be taken online using LockDown Browser and the chapter quiz before each exam will require the LockDown Browser with Webcam. Each quiz will be made available for about one week and must be completed within the specified time period (20-30 minutes). Therefore, you must read the chapter before you attempt to take the quiz. You may take a second attempt on each quiz if you answer at least 50% of the questions correctly in your the first attempt. The higher score will be included in the final grade.
- 2) There will be two exams with questions drawn from lectures, class activities, and readings covered prior to the exam. The exams may consist of short answer/essay, fill-in-the-blank, and multiple choice items and can only be taken once within the specified time period (120 minutes). Exams are sequential, but will build

on previous knowledge/comprehension. You may prepare one-page hand-written notes on one side of the letter sized paper to be used during each exam. No other materials, including the textbook (printed or e-text) or other devices during the exams. LockDown Browser with webcam is required to take both exams.

3) All quizzes and exam must be taken individually.

4) No quizzes or exams can be made up except under extenuating circumstances (i.e., hospitalization or a death in the immediate family, or other situations deemed appropriate by the instructor) substantiated through documentation (e.g., note from doctor, funeral home, etc.). Except for emergencies, the instructor must be notified before any foreseeable excusable event occurs. Approved make-up exam must be taken within one week of the scheduled exam time.

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Institutional Policies

[Federal, BOR, & KSU Course Syllabus Policies](#)

KSU Student Resources

This link contains information on help and resources available to students: [KSU Student SyllabusResources](#)