Section 1

Instructor, Course Information & Objectives

Advanced Academic Programs
Zanvyl Krieger School of Arts and Sciences
Johns Hopkins University

Climate Change and Health
AS.425.634.81

Instructor Information

Instructor: Cindy L. Parker MD, MPH
Telephone Number: (443) 287-6734, but this phone is not closely monitored
Email Address: CindyParker@jhu.edu --preferred mode for communication
Office Hours: I have a fairly flexible schedule and can be available by skype or telephone for meetings. Just send me an email with your availability and we’ll set up a time that works for you.

Course Description

This course examines the potential impacts on human health from global climate change and the possible responses to and adaptations for these impacts. Topics include impacts on health of climate extremes, climate change and infectious diseases, health and climate refugees, national assessments of health impacts of climate change, monitoring the health effects of climate change, and public health policies for climate change.

Prerequisite: Science of Climate Change and Its Impacts.

Course Goals & Learning Objectives

By the end of this course, you will be able to:

- Explain the ways climate change could impact health.
- List and prioritize direct and indirect health impacts of climate change globally, regionally, and for your local area.
- Compare and contrast strategies for climate change mitigation and adaptation with respect to co-benefits to public health, from local to global scales.
- Describe the role of health professionals in implementing strategies for climate change mitigation and adaptation.
- Communicate, using proven techniques, the connections between climate change and health to different audiences.
Section 2

Course Materials

Textbook/s

No textbook required. Weekly readings will be journal articles accessible through the library, government and non-governmental, evidence-based reports, videos, and podcasts.

Other Readings

There will be a list of optional readings, if students have a particular interest in a specific aspect of climate change and health.

Other equipment/software/websites/online resources

None

Specific Technology Requirements & Skills for this Course

Learning online requires some basic knowledge of computer technology. At a minimum, you need to be able to:

● Navigate in and use Blackboard; the Blackboard Student Orientation course on your “My Institution” page
● Create and save MS Word documents; see MS Word training and tutorials for PC users (all versions); Word Help for Mac users
● Find basic resources on the Internet
● Create and organize files & folders on your computer
● Send, receive, and manage email
Section 3

About Your Course

Course Topics
Week 1: Introduction to course logistics and philosophy
Week 2: Climate change impacts on health and well-being
Week 3: Climate change impacts on ecosystems: Why do we care?
Week 4: Inter-relationships among climate change, population, and health
Week 5: Inter-relationships among climate change, water, and health
Week 6: Health impacts of extreme weather events
Week 7: Climate change and infectious disease risk
Week 8: Climate change and heat stress
Week 9: Climate change and air quality
Week 10: Climate change and food, problem
Week 11: Climate change and food, solutions energy, and health
Week 12: Health co-benefits of climate change mitigation
Week 13: Climate change, energy, and health (thanksgiving, short week)
Week 14: Climate change, the built environment, and health
Week 15: Climate change, health, and ethics
Week 16: Cumulative Final exam/paper week

Directions for Students

Next Steps: Carefully review the remaining sections of the syllabus before beginning the Lesson 1/Week 1/Unit 1 activities, which are located in the Lessons folder in your online course.

● Once you feel that you are ready to dive into the first week’s activities, click on the Lessons button on the left-side navigation menu. Then, click on Lesson 1/Week 1/Unit 1 to begin with the Introduction and Objectives.

What To Expect in this Course

This course is 16 weeks in length and includes individual, group, and whole group activities in a weekly cycle of instruction. Each week begins on a Monday and ends on the following Sunday. Please review the course syllabus thoroughly to learn about specific course outcomes and requirements.

For this course, there will be ___ synchronous events: (Note: these cannot be “required”, but can be “highly recommended” for fully online class. You can post links to these session recordings on your Blackboard site after the event).

● Week 1: Online session via Adobe Connect. The link to the Adobe Connect room will be provided in the activity directions for this week.
● List any additional synchronous events (online or face-to-face here, if necessary.)

Each week, you will complete readings that may include videos, multimedia presentations, web-based resources, and articles from professional journals. A reading may be integrated within an activity during the week or provide some key information to assist your learning.

In this course, you will also experience online learning activities, which include discussion boards, synchronous sessions, group work, the use of Web 2.0 tools, and online multimedia presentations.

Note: Please include a brief explanation of what Web 2.0 tools will be included (if applicable).

Be sure to refer to the Checklist each week, which provides a week-at-a-glance and shows targeted dates for the completion of activities.

Course Structure

[this will be covered in greater detail during the first lecture/session]

Climate change is the greatest threat to public health of this century. Rising sea levels, worsening air quality, infectious disease patterns, frequency and severity of weather-related disasters, and availability of food and drinking water are all influenced by the changing climate. We will cover the science of the likely and potential impacts to human health and well-being in developed and developing regions of the world. Finally, we will go beyond the current state of the problems to discuss strategies for mitigation and adaptation, focusing on the co-benefits of health. We will learn specific communication techniques to use with a variety of audiences when talking about health impacts of climate change.
Section 4
Assessments and Grading Policy

Assignments

(Insert brief descriptions of the number and types of assignments here. Include general information about due dates and specific information about assignment weights.

<table>
<thead>
<tr>
<th>Assignments (one should be course engagement)</th>
<th>Due Dates</th>
<th>Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1: Homework, 5 parts</td>
<td>various</td>
<td>10 each, total 50</td>
</tr>
<tr>
<td>Assignment 2: Group assignment; how are these usually done? Group presentation and written paper</td>
<td>Sunday, Nov 19th?</td>
<td>100</td>
</tr>
<tr>
<td>Assignment 3: Final Assignment: Respond to essay questions</td>
<td>Saturday Dec 16th</td>
<td>100</td>
</tr>
<tr>
<td>Assignment 4: Course Engagement</td>
<td>Various and ongoing</td>
<td>8 each, 56 total additional 20</td>
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</tbody>
</table>

Total: 326

Grading

(Specify grading policies including how grades are determined, what grades are possible, the relationship of points earned & final grade, whether extra credit is available, what the policy is for late or missed work. If you grade on participation, indicate how participation will be assessed.)
A grading rubric will be provided for homework assignments, discussion forum postings, group project and presentations, and the final assignment. The rubric is intended to communicate clear expectations of what I’m looking for.

Late assignments of any kind will not be accepted unless prior arrangements have been made for extraordinary circumstances such as family emergencies or illness.

Extra credit is not available for this course. You must perform consistently throughout the course if you wish to earn a good grade. There will be no opportunity to improve your grade after the course ends.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>98% to 100%</td>
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<td>A</td>
<td>94% and less than 98%</td>
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<td>90% and less than 94%</td>
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<td>B+</td>
<td>88% and less than 90%</td>
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<td>80% and less than 84%</td>
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<td>C</td>
<td>70% and less than 80%</td>
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<td>F</td>
<td>0% and less than 70%</td>
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**Assignment Guidelines**

**How should assignments be submitted?**

(Talk about any formatting requirements for written work: file formats, style guides, etc. Address any requirements for images, audio files, presentations, etc. If you will be using a plagiarism checking service—Turnitin, etc.—please add instructions here.)

The weekly directions will indicate where assignments will be posted (e.g. to an assignment submission link within the Lessons area), word limits, formatting and referencing style. If submitting documents for an assignment or discussion forum, please specify the assignment name in the document title and/or the discussion thread. When creating files, include your name and the name of the assignment in the file title. Also, please be sure to only include one period in file names. The period should be between the file name and the extension. For example: mmentzer_assignment1.docx

**When will assignments be due?**

Assignment and activity due dates are listed in this syllabus and the weekly checklists. The instructor via an announcement in your online classroom will announce changes. Some larger assignments will be completed over several weeks. In these cases, you will be prompted to complete portions of the assignment each week.

**When will completed assignments be returned?**

The instructor will aim to return assignments to you within 5-7 days following the due date, depending on the length of the assignment. The instructor plans to return assignments to you in time to incorporate the feedback into your next assignment, especially for the early assignments. You will receive feedback under the My Grades link.
What is the policy for late assignments?

You are expected to contact your instructor in advance if you think you cannot meet an assignment deadline due to extraordinary circumstances, such as a family emergency or severe illness. If an assignment is late and prior arrangements have not been made with the instructor, the assignment score will be zero.

Time Management Expectations

What is the time demand and schedule of the course?

It is expected that you look ahead to schedule your time. Plan to complete coursework across several days of the week rather than all in one day. Be sure to consider how group activities impact your schedule as well.

Some assignments require that you work on them for multiple weeks. Be sure to review the assignment directions at the beginning of the course so that you can plan your time accordingly. Please seek help before becoming frustrated and spending a significant amount of time to resolve an issue.
Section 5
Course Participation & Communication Policy

Participation

What are the participation requirements?
You are expected to log into Blackboard at least three times a week, though a daily check-in is recommended. It is your responsibility to read all announcements and discussion postings within your assigned forums. You should revisit the discussion multiple times over the week to contribute to the dialogue.

What are the requirements for working in groups?
You are expected to work equitably within your group to complete collaborative group activities. At different points in the course, you will have an opportunity to privately rate your own participation and that of your group-mates.
Please refer to the Course Engagement assignment directions and scoring document, located in the Course Overview page in the Lessons section in your Blackboard classroom, for more specific information about individual and group participation in this course.

Network Etiquette (i.e. “Netiquette”)
In this course, online discussion will primarily take place in our online discussion board. In all textual online communication, it’s important to follow proper rules of netiquette.

What is netiquette? Simply stated, it's network etiquette -- that is, the etiquette of cyberspace. And "etiquette" means the social and cultural norms of communicating with others in a proper and respectful way. In other words, netiquette is a set of rules for behaving and interacting properly online.

The Netiquette “Core Rules” linked below are a set of general guidelines for cyberspace behavior. They probably won't cover all situations, but they should give you some basic principles to use in communicating online.

For Netiquette Core Rules visit The Core Rules of Netiquette web page.

Contacting the Instructor
The instructor for this course is Cindy L. Parker MD, MPH (CindyParker@jhu.edu)
Feel free to contact me with comments, questions, and concerns. You will generally receive a response within 24-48 hours. If it is urgent, please put “AAP Student—URGENT” in the subject line. I do occasionally have to travel for work to places that don’t have internet or cell service. If I anticipate it could take longer than 48 hours to respond at a particular time, I will let the class know in advance.
All email messages will be sent to you via your JHU email account, so you should be in the habit of checking that account every day or you should ensure that your JHU email account forwards messages to another account of your choice.
Section 6

Course Protocols

How will I know about changes to the course?
Frequently, you will find new announcements posted in the Announcements, which contain information about current course activities that you are working on and any changes to the course. Please check announcements every time that you log into your online course.

How should I communicate with others in this course?
You should communicate often with your classmates and with your instructor. The majority of communication will take place within the Discussion forums. When you have a question about an assignment or a question about the course, please contact your instructor, or post your question in the course’s “Syllabus & Assignment Question” forum.

Are there any requirements for sending e-mail messages?
When you send an e-mail message to the instructor or to another participant in the course, please observe the following guidelines:

- Include the title of the course in the subject field (e.g., JHU Insert Name of Course).
- Keep messages concise, and check spelling and grammar.
- Send longer messages as attachments.
- Sign your full name (the sender’s email is not always obvious).
Section 7
Course Topics, Activities & Schedule

**Tentative Course Schedule**

*Important Note:* Activity and assignment details will be explained in detail within each week's corresponding learning module. If you have any questions, please contact your instructor.

[List the agenda for the semester. Indicate the schedule is subject to change with fair notice and how the notice will be made available.]

Add disclaimer that dates might change, but if so, students will be notified by ___

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topics</th>
<th>Activities</th>
<th>Assessments &amp; Due Dates</th>
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Section 8
University Policies

General
This course adheres to all University policies described in the academic catalog. Please pay close attention to the following policies:

Students with Disabilities
Johns Hopkins University is committed to providing reasonable and appropriate accommodations to students with disabilities. Students with documented disabilities should contact the coordinator listed on the Disability Accommodations page. Further information and a link to the Student Request for Accommodation form can also be found on the Disability Accommodations page.

Ethics & Plagiarism
JHU Ethics Statement: The strength of the university depends on academic and personal integrity. In this course, you must be honest and truthful. Ethical violations include cheating on exams, plagiarism, reuse of assignments, improper use of the Internet and electronic devices, unauthorized collaboration, alteration of graded assignments, forgery and falsification, lying, facilitating academic dishonesty, and unfair competition. Report any violations you witness to the instructor.

Read and adhere to JHU's Notice on Plagiarism.

Dropping the Course
You are responsible for understanding the university's policies and procedures regarding withdrawing from courses found in the current catalog. You should be aware of the current deadlines according to the Academic Calendar.

Getting Help
You have a variety of methods to get help. Please consult the help listed in the "Blackboard Help" link in the online classroom for important information. If you encounter technical difficulty in completing or submitting any online assessment, please immediately contact the designated help desk listed on the AAP online support page. Also, contact your instructor at the email address listed atop this syllabus.

Copyright Policy
All course material are the property of JHU and are to be used for the student's individual academic purpose only. Any dissemination, copying, reproducing, modification, displaying, or transmitting of any course material content for any other purpose is prohibited, will be considered misconduct under the JHU Copyright Compliance Policy, and may be cause for disciplinary action. In addition, encouraging academic dishonesty or cheating by distributing information about course materials or assignments which would give an unfair advantage to others may violate
AAP’s Code of Conduct and the University’s Student Conduct Code. Specifically, recordings, course materials, and lecture notes may not be exchanged or distributed for commercial purposes, for compensation, or for any purpose other than use by students enrolled in the class. Other distributions of such materials by students may be deemed to violate the above University policies and be subject to disciplinary action.