2204 - Status: PENDING

Last Updated: Vankeerbergen,Bernadette Chantal 09/08/2023

#### **Term Information**

Effective Term Spring 2024

Previous Value Autumn 2021

### **Course Change Information**

What change is being proposed? (If more than one, what changes are being proposed?)

Request to have the course count as a Health & Wellbeing and Lived Environments Theme course under new GE.

What is the rationale for the proposed change(s)?

The topic lends itself very well to both Themes in the new GE.

What are the programmatic implications of the proposed change(s)?

(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?

None

Is approval of the requrest contingent upon the approval of other course or curricular program request? No

Is this a request to withdraw the course? No

#### **General Information**

Course Bulletin Listing/Subject Area Earth Sciences

Fiscal Unit/Academic Org School of Earth Sciences - D0656

College/Academic GroupArts and SciencesLevel/CareerUndergraduate

Course Number/Catalog 2204

Course Title Exploring Water Issues
Transcript Abbreviation Explr Water Issues

Course Description Water on Earth, human impacts, and scientific and technological issues related to water resource

development and conservation.

Previous Value Water on Earth, human impacts, and scientific and technological issues related to water resource

development and conservation. Autumn 2021 and after: Add EarthSc 1200 for Physical Science GE lab credit.

crean

Semester Credit Hours/Units Fixed: 3

#### Offering Information

**Length Of Course** 14 Week, 12 Week, 8 Week, 7 Week, 6 Week

Flexibly Scheduled Course Sometimes

Does any section of this course have a distance Yes

education component?

Is any section of the course offered 100% at a distance

Grading Basis Letter Grade

Repeatable No
Course Components Lecture
Grade Roster Component Lecture
Credit Available by Exam No
Admission Condition Course No
Off Campus Never

Campus of Offering Columbus, Lima, Mansfield, Marion, Newark, Wooster

Last Updated: Vankeerbergen,Bernadette Chantal 09/08/2023

**Previous Value** 

Columbus, Lima, Mansfield, Marion, Newark

#### **Prerequisites and Exclusions**

Prerequisites/Corequisites

**Exclusions** 

Electronically Enforced No

### **Cross-Listings**

**Cross-Listings** 

#### Subject/CIP Code

Subject/CIP Code 40.0605

Subsidy Level Baccalaureate Course

Intended Rank Freshman, Sophomore, Junior, Senior

#### Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors

General Education course:

Physical Science; Lived Environments; Health and Well-being

The course is an elective (for this or other units) or is a service course for other units

#### **Previous Value**

Required for this unit's degrees, majors, and/or minors

General Education course:

Physical Science

The course is an elective (for this or other units) or is a service course for other units

#### **Course Details**

Course goals or learning objectives/outcomes

Processes controlling the movement of surface & ground water, the distribution of water resources, ways in which
resources are exploited and/or contaminated, critical issues concerning the use of water in the US & countries
around the world

**Content Topic List** 

- Crisis in the world water supply
- Re-shaping the natural world
- Water health
- Water usage, abuses, and management
- Water conflicts

**Sought Concurrence** 

No

#### **Attachments**

• Feedback from Theme Panels for EARTHSC 2204.pdf: Response to Theme Panels

(Cover Letter. Owner: Griffith, Elizabeth M)

• submission-health-well-being updated.pdf: updated submission Health Wellbeing

(Other Supporting Documentation. Owner: Griffith, Elizabeth M)

ullet submission-lived-environments updated.pdf: updated submission Lived Env

(Other Supporting Documentation. Owner: Griffith, Elizabeth M)

• EARTHSC\_2204\_syllabus\_updatedv2\_ahs.docx: Updated syllabus

(Syllabus. Owner: Griffith, Elizabeth M)

• ResponsetoPanelFeedback2023v2\_ahs.docx: ResponsetoPanelFeedbackv2

(Cover Letter. Owner: Griffith, Elizabeth M)

#### Comments

- See cover letters and updates highlighted in the syllabus and revised submission documents. (by Griffith, Elizabeth M on
- Please see Panel feedback email sent 03/09/2023. (by Hilty, Michael on 03/09/2023 11:08 AM)

#### **Workflow Information**

Status	User(s)	Date/Time	Step
Submitted	Griffith, Elizabeth M	03/04/2022 09:48 AM	Submitted for Approval
Approved	Griffith,Elizabeth M	03/04/2022 09:49 AM	Unit Approval
Approved	Vankeerbergen,Bernadet te Chantal	05/03/2022 12:55 PM	College Approval
Revision Requested	Hilty,Michael	06/08/2022 09:34 AM	ASCCAO Approval
Submitted	Griffith, Elizabeth M	01/31/2023 07:50 PM	Submitted for Approval
Approved	Griffith,Elizabeth M	01/31/2023 07:50 PM	Unit Approval
Approved	Vankeerbergen,Bernadet te Chantal	02/13/2023 09:26 AM	College Approval
Revision Requested	Hilty,Michael	03/09/2023 11:08 AM	ASCCAO Approval
Submitted	Griffith, Elizabeth M	06/13/2023 10:04 AM	Submitted for Approval
Approved	Griffith,Elizabeth M	06/17/2023 09:45 AM	Unit Approval
Approved	Vankeerbergen,Bernadet te Chantal	09/08/2023 01:05 PM	College Approval
Pending Approval	Jenkins,Mary Ellen Bigler Hanlin,Deborah Kay Hilty,Michael Neff,Jennifer Vankeerbergen,Bernadet te Chantal Steele,Rachel Lea	09/08/2023 01:05 PM	ASCCAO Approval

Please find our responses to the feedback from the Panel (letter 2-24-23). We have highlighted changes to the syllabus in green as indicated below. Thank you for your consideration.

#### Good morning,

On Friday, February 24<sup>th</sup>, the Themes 1 Panel of the ASC Curriculum Committee reviewed a new GEN Theme: Lived Environments request for Earth Sciences 2204.

The Panel did not vote on the proposal as they would like to see the following feedback items addressed:

- The reviewing faculty thank the School of Earth Sciences for their revision to the course. While they agree that the course content is certainly suited to fit within the GEN Theme: Lived Environments, they are unable to see how this course will be an advanced study of the GEN Theme. They ask that more information be provided within the course syllabus surrounding course content and what students will be expected to engage with during their class time. For example, how will students receive course content during each individual week? Will there be video lectures from the instructor?
  - A new section was added on p. 5, "How this Online Course Works," which describes the
    content of the course, including weekly readings and assignments and a final project.
    Please note that more information on the project is also available on p 9-11 and
    references for a selection of the planned readings is on p. 14. All planned readings are
    from the peer-reviewed scientific literature and intended to extend students' ability to
    digest and interpret new research.
- The reviewing faculty ask that the Student Life Disability Services statement (as found on pages 10-11 of the course syllabus) be updated to the current version, as the email address provided is out-of-date. Please find the current and most up-to-date Disability Statement on the ASC Curriculum and Assessment Services website here: <a href="https://asccas.osu.edu/curriculum/syllabus-elements">https://asccas.osu.edu/curriculum/syllabus-elements</a>.
  - Done. The current version of the disability services statement is now included in the updated syllabus (and highlighted in green to see the change easily).
- The reviewing faculty request that a cover letter be provided that explains any changes made as a result of the provided feedback.

I will return Earth Sciences 2204 to the School's queue via curriculum.osu.edu in order to address the Panel's above feedback.

Should you have any questions, please do not hesitate to reach out to Jim Fredal, faculty Chair of the Themes 1 Panel, or me.

All my best, Michael

#### Michael Hilty

Curriculum and Assessment Coordinator

ASC Curriculum and Assessment Services The College of Arts and Sciences



# **SYLLABUS: EARTHSC 2204**

# **Exploring Water Issues**

3 credit hours

Course times and location: No required schedule meetings; all instruction occurs on Carmen each week

**Mode of delivery:** Distance learning (Online, asynchronous)

### **Course overview**

#### Instructor

Instructor: Prof. Audrey Sawyer (she/her/hers)

Email address: sawyer.143@osu.edu

Phone number: (614) 292-8383

Virtual office hours (on Zoom): Wednesdays and Thursdays 3 pm to 4 pm at <a href="mailto:go.osu.edu/asawyerzoom">go.osu.edu/asawyerzoom</a> and by appointment. I would love to meet you!

### **Course description**

"Water on Earth, human impacts, and scientific and technological issues related to water resource development and conservation." Students will explore issues affecting the world's fresh water supply with an emphasis on water use, resource management, and sustainability.

#### This course will:

- 1. Familiarize students with basic concepts controlling the movement of surface water and ground water, the distribution of water resources, and the ways in which these resources can be exploited and/or contaminated by humans in their lived environment.
- 2. Examine critical issues concerned with the use of water and its impact on human health and livelihoods in the United States and countries around the world.

This class is considered an upper-level course in which you are not only expected to remember and understand reading materials, but -critically- apply basic concepts to "exploring water issues" related to health and wellbeing and human-environment interactions. In your final project, in particular, you will gather, evaluate, and interpret evidence, which you will integrate into your final project. Your proposal for the final project will outline your research design into the specific are of



interest using methods appropriate for the task as hand (e.g., scientific, social-scientific, historical, textual).

### Prerequisite No prerequisite

### **Environmental Public Health Specialization Competencies**

Please review the BSPH core and specialization competencies addressed by this course at the following link: <a href="http://cph.osu.edu/students/undergraduate">http://cph.osu.edu/students/undergraduate</a>

**Students starting at Ohio State in Autumn 2023 and beyond**: EARTHSC 2204 will count as any one (and only one) three-credit course in the following new General Education (GE) Themes: **Health and Wellbeing** and **Lived Environments**.

### Course learning outcomes

General Education (GE) Theme course goals & Expected Learning Outcomes (ELOs) GOAL 1: Successful students will analyze an important topic or idea at a more advanced and in-depth level than the foundations.

ELO 1.1 Engage in critical and logical thinking about the topic or idea of the theme.

ELO 1.2 Engage in an advanced, in-depth, scholarly exploration of the topic or idea of the theme.

GOAL 2: Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.

ELO 2.1 Identify, describe, and synthesize approaches or experiences as they apply to the theme.

ELO 2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts.

### Specific Expectations of Theme Courses in Health & Wellbeing

GOAL 3: Students will explore and analyze health and wellbeing through attention to at least two dimensions of wellbeing. (Ex: physical, mental, emotional, career, environmental, spiritual, intellectual, creative, financial, etc.).

ELO 3.1 Explore and analyze health and wellbeing from theoretical, socio-economic, scientific, historical, cultural, technological, policy, and/or personal perspectives. ELO 3.2 Identify, reflect on, or apply strategies for promoting health and wellbeing.

This course fulfills the Health & Wellbeing Theme goal and ELOs by: evaluating the impact of water availability and quality on human health and public health decisions at scales ranging



from local municipalities to transnational partnerships. An overarching goal of this course is to provide students with socioeconomic and public health context for each water issue. All modern water issues are caused by social, economic, and political decisions of humans through time and all modern water issues result in socioeconomic and public health consequences. Examples of topics considered under a Health & Wellbeing framework include the health implications of water scarcity in the drought-prone US Southwest and the Navajo Nation in particular, harmful algal blooms in Lake Erie and its impact on safe drinking water for coastal communities, and arsenic contamination in Bangladesh and government efforts to minimize exposure through various water supply and treatment policies. Students will evaluate the importance of water in health and wellbeing and how water shapes our livelihoods. As mentioned previously, an overarching goal of this course is to provide students with sociopolitical context for each water issue.

### Specific Expectations of Theme Courses in **Lived Environments**

GOAL 3: Successful students will explore a range of perspectives on the interactions and impacts between humans and one or more types of environment (e.g. agricultural, built, cultural, economic, intellectual, natural) in which humans live.

ELO 3.1 Engage with the complexity and uncertainty of human-environment interactions.

ELO 3.2 Describe examples of human interaction with and impact on environmental change and transformation over time and across space.

GOAL 4: Successful students will analyze a variety of perceptions, representations and/or discourses about environments and humans within them.

ELO 4.1 Analyze how humans' interactions with their environments shape or have shaped attitudes, beliefs, values and behaviors.

ELO 4.2 Describe how humans perceive and represent the environments with which they interact.

ELO 4.3 Analyze and critique conventions, theories, and ideologies that influence discourses around environments.

This course fulfills the Lived Environments Theme goals and ELOs by: exploring water issues involving interactions and impacts between humans and the environment in which they live. The cultural and social implications are explored by considering the consequences and steps that can be taken to mitigate or prevent further problems for a given water issue. Examples of topics considered under a Lived Environment framework include the health implications (human impact) of water scarcity in the drought-prone US Southwest and the Navajo Nation in particular (i.e., their lived environment), harmful algal blooms in Lake Erie and its impact on safe drinking water for coastal communities (i.e., humans impacted in this lived environment), and arsenic contamination in Bangladesh and government efforts to minimize exposure through various water supply and treatment policies. Students will evaluate the importance of water in our lived environments and how water shapes the human experience and our interactions with ecosystems. As mentioned previously, an overarching goal of this course is to provide students with sociopolitical context for each water issue.



\*\*Although this syllabus reflects a plan for the semester, changes may become necessary as the semester progresses.

### **How This Online Course Works**

**Mode of delivery:** This course is 100% online. There are no required sessions when you must be logged in to Carmen at a scheduled time. The online materials consist of recorded lectures and videos, reading, quizzes and short assignments, and discussions boards. The course also involves a semester-long group project with instructions provided on Carmen.

**Readings:** Course modules on Carmen include all required reading, also listed below in this syllabus. The readings are intended to introduce students to peer-reviewed scientific literature and our evolving scientific understanding of the water system and humans' dependence on it. Each weekly module on Carmen provides the reading specific to that week.

**Pace of online activities:** This course is divided into **weekly modules** that are released one week ahead of time. Students are expected to keep pace with weekly deadlines but may schedule their efforts freely within that time frame.

**Credit hours and work expectations:** This is a **3-credit-hour course**. According to Ohio State policy, students should expect around 3 hours per week of time spent on direct instruction (instructor content and Carmen activities, for example) in addition to 6 hours of homework (reading and assignment preparation, for example) to receive a grade of (C) average.

**Attendance and participation requirements:** Because this is an online course, your attendance is based on your online activity and participation. The following is a summary of everyone's expected participation:

- Participating in online activities for attendance: AT LEAST ONCE PER WEEK You are expected to log in to the course in Carmen every week. (During most weeks you will probably log in many times.) If you have a situation that might cause you to miss an entire week of class, discuss it with your instructor as soon as possible.
- Office hours and live sessions: OPTIONAL All live, scheduled events for the course, including office hours, are optional.
- Weekly check-in surveys: As part of your participation, each week you can expect to
  respond to a survey that lets me know what new things you're learning, what has
  surprised you most about those takeaways, what questions you still have about the
  content, and how comfortable you are with the expected workload, course structure, and
  communication through Carmen.



- Completing weekly assignments. As part of your participation, each week you can
  expect one assignment to probe and deepen your comprehension of the recorded
  lectures and readings. Three of the 14 assignments will be quizzes that require you to
  interpret scientific data in the form of graphs, figures, and tables focused around topics
  in the lectures and readings. These quizzes will be equal in weight to the other 11
  assignments. The 11 remaining assignments will engage your understanding of the
  weekly readings and lectures through short-answer essays, storyboarding in small
  groups, and other activities.
- **Project**: Projects will be carried out in small groups of 2-3 students. You will identify group members based on common research interests through a Carmen discussion page within the first 3 weeks of the semester and submit a proposal on your intended topic for instructor feedback. More information on the proposal, rough draft, and final draft are provided in this syllabus below. These tiered checkpoints are intended to provide you with valuable feedback on your idea generation, your research and investigation of scientific literature, and communication of your findings. All checkpoints will be graded on a rubric (on Carmen) that includes both the project material (proposal, rough draft, or final draft) and a self-reflection. The self-reflection is intended to encourage metacognition about the learning process and create opportunities for instructor advice around areas where students may feel stuck. For example, the selfreflection will provide students with opportunities to describe how well they feel they have solidified their topic, whether they are finding adequate references, and whether their group is communicating effectively. You will have a group section on Carmen where you should have a weekly discussion (at a time fitting your own schedules) about progress on this project, as well as help each other out with the other online materials for each week's Unit. In other words, this is a more intimate setting for discussions than the class-wide discussion forum.

### Course schedule

#### **Topical Outline**

The following is a tentative, chronological outline of course lecture and associated group or individual project and exercise topics. **Lecture notes can be downloaded from Carmen.** 

Topic	Assignments	Lived Environment	Health + Wellbeing
		Theme focus	Theme focus
Week 1: Course Introduction; The Water Cycle	Water Footprint Assignment	We'll investigate the concept of water scarcity across the globe and explore why it's scarce in different regions (physical versus economic scarcity)	What do we mean by "Water is life?" We'll look at the many reasons we need water (not just for drinking but to grow food and support businesses)



Week 2: Weather;	Climata Changa	We'll examine the effects	We'll review the
Climate Change	Climate Change Response	of climate change on the water cycle in the lived environment (Case Study: Hurricane Harvey and Houston, Texas)	existential threats of rising seas, warming air temperatures, and extreme weather such as hurricanes on humans
Week 3: Surface Water and Its Management	Project Proposals	Case Studies: Drying of the Colorado River, Shrinking Aral Sea	Case Study: Health effects in Aral Sea communities
Week 4: Boom – Floods		Case Study: Urbanization increases flooding in DC suburbs	We'll discuss flood mitigation and flood warning strategies and how they save lives
Week 5: Bust – Drought	Collapse Assignment	Case Studies: archaeological evidence of drought during the abandonment of Mayan and Mesa Verde settlements	We'll discuss whether modern societies are susceptible to collapse due to water scarcity in the same way ancient ones were
Week 6: Introduction to Groundwater	High Plains Aquifer Assignment	Case Study: High Plains Aquifer	We'll discuss what happens to local farm communities and domestic food prices once we pass peak water in the High Plains
Week 7: More Groundwater Challenges		Case Study: Subsidence in Mexico City and Central Valley	We'll discuss what happens to communities when sidewalks, buildings, and sewer systems fail due to subsidence
Week 8: Project Working Week		Project topic specific	Project topic specific
Week 9: Introduction to Water Pollution		Case Studies: Geogenic arsenic pollution in Bangladesh, Anthropogenic PFAS in Ohio	We'll explore policy responses and their effects on human health for each Case Study
Week 10: Waste Disposal		We'll explore modern landfill design and how poor containment affects our water	We'll discuss human health implications of poor waste containment
Week 11: Water treatment	Virtual field trip to a local wastewater treatment plant	Where does our wastewater go in Columbus? Where does our drinking water come from?	We'll explore successes and failures in modern drinking water treatment (including a Case Study of Flint, Michigan)



Week 12: Local Issues in Water	Case Study: Lake Erie's harmful alglal blooms	We'll explore the health effects of cyanotoxins
Pollution: Nutrients Week 13: Local	Case Study: Marcellus	We'll explore the health
Issues in Water Pollution: Fracking	Shale and flaming tap water	effects of explosive tap water
Week 14: Local Issues in Water Access: Underbounding	Case Study: We'll learn about environmental justice for a Zanesville neighborhood without water	We'll discuss environmental justice and its connection to wellbeing and livelihoods
Week 15: Project Working Week	Project topic specific	Project topic specific

# **Grading and faculty response time**

Remember that you should call **614-688-HELP** at any time if you have a technical problem. I reply to emails within **24 hours on school days (likely also on the weekends)**.

### How I will calculate your final grade

See the course schedule for due dates (also available on Carmen).

Assignment category	Weight
Learning and reflection Weekly check-in surveys	25%
Weekly Assignments	50%
Course project 1. Proposal 2. Rough Draft 3. Final Draft	25%
Total	100%



### Exams → There are no exams in this course

# Course project is determined in collaboration with students in the first three weeks

This project provides you a chance to pursue an independent investigation on a water issue of your choice and present it in any creative format you choose. It can be an Infomercial for youtube, a children's book, a song, a Google Earth tour, or more! There are only 3 rules:

- 1. The topic must focus on some aspect of <u>fresh water</u> in a <u>lived place</u> that influences <u>human health and wellness</u>.
  - 2. Your research must include 3 references from the peer-reviewed literature.
- 3. You can present your findings in any creative format of your choosing, as long as it is <u>not</u> a research paper or Powerpoint presentation. If you choose an audio-visual format (for example, a mini-documentary or slam poetry reading), please limit recordings to under 10 minutes.

This is an opportunity for you to explore an area of Water Science that you are most interested in that is related to both of the two themes of Health and Wellbeing and Lived Environment. In the process, you will have the chance to combine your investigation with your hobbies and interests. My favorite thing about water is that it's related to everything! It's such a fun area of science and I want you to have a space to be creative and curious so you can really enjoy it too. I also genuinely enjoy learning from (and with) students—I learn something new every semester!

Through this project, I hope to help you nurture your natural curiosity and further develop your scientific literacy. Scientific literacy, critical for sound decisions on scientifically infused issues such as climate change, includes an understanding of basic science concepts, such as the fundamental behavior of matter and energy. It also includes the understanding that "science" is not an encyclopedic collection of facts. Rather, it is a process of exploration that embraces curiosity, inquiry, testing, and communication across disciplines, to reduce uncertainty about nature.

Completing this course project will help you develop the following skills:

- Using scientific reasoning to gather, evaluate, and interpret evidence, which you will appropriately integrate into your project.
- Designing content to meet the needs of specific audiences for specific purposes in specific situations.
- Making decisions based on analysis of evidence, logic, and ethics.



- Design and conduct research into your area of interest using methods appropriate for the task at hand (e.g., scientific, social-scientific, historical, textual).
- Use one or more creative tools (e.g., writing, visual art, presentation, visual design, dance, music, theatre performance, poetry, fiction, or drama) to express your ideas, solve real-world problems, and complete projects.
- If you choose to do group work—Complete projects by working effectively in interdisciplinary teams.

The course project is divided into 3 parts.

#### 1. Proposal

- 25 points—The project proposal is driven by a thoughtful research question or area of creative inquiry.
- **25 points**—The student (or group) has submitted their well-thought-out proposal that includes an idea of their plan moving forward.
- 50 points—The student (or group) has submitted their thorough self-reflection with their proposal.

#### 2. Rough Draft

- 25 points—Appropriate use of external (and internal, if you choose) resources. You are required to use 3 or more high-quality resources.
- **25 points**—Student (or group) has included a creative and effective first draft. This draft should be organized and logical and provide an adequate springboard for your grader to use to provide guidance for the completed final project.
- 50 points—The student (or group) has submitted their thorough self-reflection with their rough draft.

#### 3. Final Project

- 25 points—The student (or group) effectively used grader feedback and their own selfreflection to improve upon their rough draft and interact with their new knowledge on a deeper, more meaningful level.
- **25 points**—The student (or group) has submitted their final project, which is creative and effective. This project should be well-organized and logical, using 3 or more appropriate sources. The student's (or group's) curiosity and imagination are evident.
- 50 points—The student (or group) has submitted their thorough self-reflection with their final project



In the proposal, rough draft, and final draft, it should be obvious <u>what</u> the fresh water problem is that you've chosen to investigate, <u>where</u> it's happening, and <u>how</u> it connects to people's health or wellness. Some examples of project ideas are below:

Topic	Lived Environment	Human Health & Wellness Connection	Format
How does mountaintop removal mining in the Appalachians impair streams?	Rural Appalachians	Rural communities depend on streams and connected groundwater for their drinking water, and acidic conditions make water undrinkable	Google Earth field trip to an area with mountaintop removal with photos of contaminated streams
How do atmospheric rivers cause devastating floods?	California	Floods directly endanger people's lives	45-second public service announcement for youtube that explains weather and floods due to atmospheric rivers and reminds residents what to do to stay safe
Why do Lake Erie's harmful algal blooms seem to be getting worse, and what can we do about it?	Ohio	Algal toxins in harmful algal blooms can cause liver failure if ingested through swimming, direct consumption, or eating fish that contain toxins	Children's book that explains why algal blooms happen and whether it's ok to swim in Lake Erie when the water is green

### **Check-in surveys**

At the end of each week, you will complete an anonymous check-in survey for participation credit. Carmen will automatically grade this upon completion. This survey is important as it helps you reflect on your learning and it helps me understand where I need to make adjustments to this course and future courses.

### **Extra credit opportunities**

Maximum 10% extra credit possible through several extra credit opportunities this semester. Unfortunately, Carmen doesn't have a very easy way of automatically adding extra credit into

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your course grade, so to make your graders' lives easier we will keep track of your extra credit % in the gradebook but will add it to the final grade at the **end of the semester**.

### Late assignments

All graded assignments are due on the specified due date. All assignments must be submitted through Carmen. No emailed assignments will be accepted. Extensions will be granted, no questions asked, if prior arrangements are made by email request BEFORE the deadline. All assignments turned in after the due date without extension will incur a 10% penalty for each day late, up to a week late. After that no points will be awarded. It is therefore essential to communicate in advance of missing any assignment or within the week that follows the deadline to avoid losing credit for an assignment.

### **Grading scale**

93-100: A

90-92.9: A-

87-89.9: B+

83-86.9: B

80-82.9: B-

77-79.9: C+

73-76.9: C

70 -72.9: C-

67 -69.9: D+

60 -66.9: D

Below 60: E

### **General accommodations statement**

As your instructor, I will make every effort to create a learning experience that is as accessible and equitable as possible for each of you. Although I strongly encourage you to arrange for official recognition of your required accommodation, such as through Student Life Disability Services, I recognize that not everyone who needs accommodations is formally registered.



### University statement on disability services

The University strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue

### Accessibility of course technology

This online course requires the use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor.

- Carmen (Canvas) accessibility
- Streaming audio and video



### **Attendance and participation**

**Mode of delivery: This course is 100% online**. I will deliver all course content through Carmen. There are no required face-to-face sessions, but students should follow a week-by-week schedule outlined in the syllabus and on Carmen. All work and lectures will be <u>asynchronous</u>, or self-paced, and students can complete the coursework without coming to campus.

The pace of online activities: The course content is divided into weekly modules available on Carmen. The modules are organized sequentially and will be unlocked week by week. Students are expected to keep pace with weekly deadlines but may schedule their efforts freely within that time frame.

**Attendance and participation requirements:** Because this is an online course, your attendance is based on your online activity and participation. The following is a summary of everyone's expected participation:

- Participating in online activities for attendance: AT LEAST ONCE PER WEEK
  - You are expected to log in to the course in Carmen every week. (During most weeks you will probably log in many times.) If you have a situation that might cause you to miss an entire week of class, discuss it with me as soon as possible. Remember, once per week here is the bare minimum. To avoid stressing yourself out too much, follow my weekly pacing guides in each weekly module.
- Office hours: OPTIONAL AND FLEXIBLE
  - There will be no live sessions (unless requested) and office hours are optional.

## Course materials and technologies

### **Textbooks**

There is no required textbook for the course.

### **Literature for Case Studies**

These articles are available to all Ohio State students, but pdf copies will also be provided through Carmen. Articles may be supplemented by instructor as needed.



Famiglietti, J. (2014), The global groundwater crisis. *Nature Clim Change*, *4*. 945–948. https://doi.org/10.1038/nclimate2425

Howarth, R et al. (2011), Should fracking stop? *Nature*, *477*, 271–275. https://doi.org/10.1038/477271a

Kohler, T.A. et al. (2008), Mesa Verde Migration. American Scientist, 96, 146-153.

Peterson, L.C. and G.H. Huag (2005), Climate and the Collapse of Maya Civilization. *American Scientist*, 93, 322-329.

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### **Course technology**

I have pulled together a wealth of resources for this course, all of which are housed at the course website on Carmen. In order to make the most of these online resources, you will need access to a computer or tablet with a reliable connection to the Internet. Dialup will likely NOT be adequate to meet your needs. If you do not have access to a computer at home, all computer labs on campus meet these requirements. If there are any other technological barriers that arise please let me know as soon as possible.



For help with your password, university email, Carmen, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at https://ocio.osu.edu/help/hours, and support for urgent issues is available 24/7.

• Self-Service and Chat support: http://ocio.osu.edu/selfservice

• **Phone:** 614-688-HELP (4357)

Email: 8help@osu.eduTDD: 614-688-8743

#### Baseline technical skills for online courses

- Basic computer and web-browsing skills
- Navigating Carmen: for questions about a specific functionality, see the <u>Canvas Student</u> <u>Guide</u>.
- Email communication skills
- Use office applications such as Microsoft Office (or similar) to create documents.
- Saving files/documents and uploading assignments to Carmen.

### Required technical skills specific to this course

- If you would like to visit me during office hours (please do!), you will typically use
   CarmenZoom's text, audio, and video chat functions. You can find more information at <a href="https://osu.zoom.us/">https://osu.zoom.us/</a>.
- On-campus and off-campus access to YouTube.

### Required equipment

- Computer (or equivalent-functioning tablet): current Mac (OS X) or PC (Windows) with high-speed internet connection.
- Other: a mobile device (smartphone or tablet) or landline to use for BuckeyePass/Duo Mobile authentication.

### Optional equipment

- Webcam: built-in or external webcam, fully installed
- Microphone: built-in laptop or tablet mic or external microphone

### Required software

 Web browser: Google Chrome is recommended. For a free download (Mac or PC) go to <a href="https://www.google.com/chrome/">https://www.google.com/chrome/</a>. Keep your plug-ins up to date to ensure compatibility.

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- Microsoft Office 365 ProPlus: All Ohio State students are now eligible for free
   <u>Microsoft Office 365 ProPlus</u> through Microsoft's Student Advantage program. Each
   student can install Office on five PCs or Macs, five tablets (Windows, iPad®, and
   Android™), and five phones.
  - Students are able to access Word, Excel, PowerPoint, Outlook, and other programs, depending on the platform. Users will also receive 1 TB of OneDrive for Business storage.
  - Office 365 is installed within your BuckeyeMail account. Full instructions for downloading and installation can be found <a href="https://ocio.osu.edu/kb04733">https://ocio.osu.edu/kb04733</a>
- Free Adobe Acrobat Reader: <a href="https://get.adobe.com/flashplayer">https://get.adobe.com/flashplayer</a>

#### Recommended software

- Anti-Virus software free to OSU faculty, staff, and students for use on personallyowned computers via the OSU Software Downloads page: <a href="http://osusls.osu.edu/">http://osusls.osu.edu/</a>
- Notability, GoodNotes, or some other kind of note-taking tablet app (if you use a
  tablet). Personally, I use both. I like that Notability can record audio as you write and
  playback audio clips from when you wrote a given note. I like that GoodNotes has more
  template flexibility and reminds me more of writing in an actual notebook. Both of these
  would help you to fill in the guided notes!
- **Grammarly** I love Grammarly! There is both a free version and a paid version. I use this to help me catch spelling and grammatical errors.

#### Carmen access

You will need to use <u>BuckeyePass</u> multi-factor authentication to access your courses in Carmen. To ensure that you can connect to Carmen at all times, OSU recommends that you take the following steps:

- Register multiple devices in case something happens to your primary device. Visit the <u>BuckeyePass - Adding a Device</u> help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click "Enter a Passcode" and then click the "Text me new codes" button that appears. This will text you ten passcodes good for 365 days that can each be used once.
- Download the <u>Duo Mobile application</u> to all of your registered devices for the ability to generate one-time codes if you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at 614-688-4357 (HELP), and the IT support staff will work out a solution with you.



### Other course policies

### Discussion and communication guidelines

I am committed to the principle of universal learning. This means that our learning and interactions should be as inclusive as possible. Mutual respect, civility, and the ability to listen and observe others are crucial to universal learning. Active, thoughtful, and respectful participation in all aspects of the course will make our time together as productive and engaging as possible.

#### Remember to be aware of your tone when communicating in online courses!

Communication can be extra challenging without the ability to hear vocal inflections, see body language, or read facial expressions.

### **Academic integrity policy**

Note: Feel free to contact me any time for clarity!

**Quizzes**: Quizzes are a way for students to self-check their understanding of the course material for each unit. All quizzes will be delivered through Carmen and are to be completed by yourself. They are open-book and open-note, and you will have multiple attempts.

### Ohio State's academic integrity policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understood the University's *Code of Student Conduct*. All students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's *Code of Student Conduct* is never considered an excuse for academic misconduct,

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so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity):

- The Committee on Academic Misconduct web pages (<u>COAM Home</u>)
- Ten Suggestions for Preserving Academic Integrity (<u>Ten Suggestions</u>)
- Eight Cardinal Rules of Academic Integrity (www.northwestern.edu/uacc/8cards.htm)

### **GroupMe & other group messaging platforms**

I do not endorse/recommend GroupMe or other group messaging platforms as appropriate to communicate on course material. Because information travels so fast with GroupMe, students can find themselves knee-deep in an academic integrity issue before recognizing the signs. In addition, all activity is recorded and accessible on the platform for anyone with screenshots to see.

To protect yourself, **never share a current or past quiz or test material** in a GroupMe setting, as this will be considered an academic integrity violation by the university. **If you see cheating, do not respond** to the message and **leave the group immediately**. Replying to a post, even just to say "ok," "thank you," or replying with an emoji, **can be considered academic misconduct**.

Finally, please realize that your behavior on a class GroupMe is permanently documented and has many witnesses. Though university staff might not have access to it right off, the more people there are in the group, the higher the risk someone will communicate what is happening in the group. With that in mind, people active in their class GroupMe need to write as if university staff is reading their posts.



### Copyright disclaimer

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Therefore, copyright law must be considered before copying, retaining, or disseminating materials outside the course.

### Statement on Title IX

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <a href="http://titleix.osu.edu">http://titleix.osu.edu</a> or by contacting the Ohio State Title IX Coordinator at <a href="http://titleix.osu.edu">titleix.@osu.edu</a>

#### Your mental health!

A recent American College Health Survey found stress, sleep problems, anxiety, depression, interpersonal concerns, death of a significant other, and alcohol use among the top ten health impediments to academic performance. Should you find yourself experiencing personal difficulties, whether related to class or not, please know that you have access to confidential services provided by the OSU Counseling and Consultation Services (614-292-5766) for assistance, support, and advocacy. Remember, you are not alone!

### **Academic Support**

The Ohio State University provides numerous resources to enhance student learning and success inside and outside the classroom. To find out more about student support services on the Columbus campus, please visit <a href="http://ssc.osu.edu">http://ssc.osu.edu</a>. For an overview and contact information for the student academic services offered on the Columbus campus, please visit <a href="http://advising.osu.edu/welcome.shtml">http://advising.osu.edu/welcome.shtml</a>.

### GE Theme course submission worksheet: Lived Environments

#### Overview

Courses in the GE Themes aim to provide students with opportunities to explore big picture ideas and problems within the specific practice and expertise of a discipline or department. Although many Theme courses serve within disciplinary majors or minors, by requesting inclusion in the General Education, programs are committing to the incorporation of the goals of the focal theme and the success and participation of students from outside of their program.

Each category of the GE has specific learning goals and Expected Learning Outcomes (ELOs) that connect to the big picture goals of the program. ELOs describe the knowledge or skills students should have by the end of the course. Courses in the GE Themes must meet the ELOs common for **all** GE Themes <u>and</u> those specific to the Theme, in addition to any ELOs the instructor has developed specific to that course. All courses in the GE must indicate that they are part of the GE and include the Goals and ELOs of their GE category on their syllabus.

The prompts in this form elicit information about how this course meets the expectations of the GE Themes. The form will be reviewed by a group of content experts (the Theme Advisory) and by a group of curriculum experts (the Theme Panel), with the latter having responsibility for the ELOs and Goals common to all themes (those things that make a course appropriate for the GE Themes) and the former having responsibility for the ELOs and Goals specific to the topic of **this** Theme.

Briefly describe how this course connects to or exemplifies the concept of this Theme (Lived Environments)

In a sentence or two, explain how this class "fits' within the focal Theme. This will help reviewers understand the intended frame of reference for the course-specific activities described below.

(enter text here)			

#### Connect this course to the Goals and ELOs shared by all Themes

Below are the Goals and ELOs common to all Themes. In the accompanying table, for each ELO, describe the activities (discussions, readings, lectures, assignments) that provide opportunities for students to achieve those outcomes. The answer should be concise and use language accessible to colleagues outside of the submitting department or discipline. The specifics of the activities matter—listing "readings" without a reference to the topic of those readings will not allow the reviewers to understand how the ELO will be met. However, the panel evaluating the fit of the course to the Theme will review this form in conjunction with the syllabus, so if readings, lecture/discussion topics, or other specifics are provided on the syllabus, it is not necessary to reiterate them within this form. The ELOs are expected to vary in their "coverage" in terms of number of activities or emphasis within the course. Examples from successful courses are shared on the next page.

**Goal 1:** Successful students will analyze an important topic or idea at a more advanced and in-depth level than the foundations. In this context, "advanced" refers to courses that are e.g., synthetic, rely on research or cutting-edge findings, or deeply engage with the subject matter, among other possibilities.

**Goal 2:** Successful students will integrate approaches to the theme by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.

	Course activities and assignments to meet these ELOs
ELO 1.1 Engage in critical and	
logical thinking.	
ELO 1.2 Engage in an advanced,	
in-depth, scholarly exploration of	
the topic or ideas within this	
theme.	
<b>ELO 2.1</b> Identify, describe, and	
synthesize approaches or	
experiences.	
ELO 2.2 Demonstrate a	
developing sense of self as a	
learner through reflection, self-	
assessment, and creative work,	
building on prior experiences to	
respond to new and challenging	
contexts.	

Example responses for proposals within "Citizenship" (from Sociology 3200, Comm 2850, French 2803):

<b>ELO 1.1</b> Engage in critical	This course will build skills needed to engage in critical and logical thinking
and logical thinking.	about immigration and immigration related policy through:
	Weekly reading response papers which require the students to synthesize
	and critically evaluate cutting-edge scholarship on immigration;
	Engagement in class-based discussion and debates on immigration-related
	topics using evidence-based logical reasoning to evaluate policy positions;
	Completion of an assignment which build skills in analyzing empirical data
	on immigration (Assignment #1)

Completion 3 assignments which build skills in connecting individual experiences with broader population-based patterns (Assignments #1, #2, #3)

Completion of 3 quizzes in which students demonstrate comprehension of the course readings and materials.

# **ELO 2.1** Identify, describe, and synthesize approaches or experiences.

Students engage in advanced exploration of each module topic through a combination of lectures, readings, and discussions.

#### Lecture

Course materials come from a variety of sources to help students engage in the relationship between media and citizenship at an advanced level. Each of the 12 modules has 3-4 lectures that contain information from both peer-reviewed and popular sources. Additionally, each module has at least one guest lecture from an expert in that topic to increase students' access to people with expertise in a variety of areas.

#### Reading

The textbook for this course provides background information on each topic and corresponds to the lectures. Students also take some control over their own learning by choosing at least one peer-reviewed article and at least one newspaper article from outside the class materials to read and include in their weekly discussion posts.

#### **Discussions**

Students do weekly discussions and are given flexibility in their topic choices in order to allow them to take some control over their education. They are also asked to provide

information from sources they've found outside the lecture materials. In this way, they are able to

explore areas of particular interest to them and practice the skills they will need to gather information

about current events, analyze this information, and communicate it with others.

Activity Example: Civility impacts citizenship behaviors in many ways. Students are asked to choose a TED talk from a provided list (or choose another speech of their interest) and summarize and evaluate what it says about the relationship between civility and citizenship. Examples of Ted Talks on the list include Steven Petrow on the difference between being polite and being civil, Chimamanda Ngozi Adichie's talk on how a single story can perpetuate stereotypes, and Claire Wardle's talk on how diversity can enhance citizenship.

the contexts.

ELO 2.2 Demonstrate a developing sense of self as a learner through reflection, self-assessment, and creative work, building on prior experiences to respond to new and challenging contexts.

Students will conduct research on a specific event or site in Paris not already discussed in depth in class. Students will submit a 300-word abstract of their topic and a bibliography of at least five reputable academic and mainstream sources. At the end of the semester they will submit a 5-page research paper and present their findings in a 10-minute oral and visual presentation in a small-group setting in Zoom.

Some examples of events and sites:

The Paris Commune, an 1871 socialist uprising violently squelched by conservative forces

Jazz-Age Montmartre, where a small community of African-Americans—
including actress and singer Josephine Baker, who was just inducted into
the French Pantheon–settled and worked after World War I.
The Vélodrome d'hiver Roundup, 16-17 July 1942, when 13,000 Jews were
rounded up by Paris police before being sent to concentration camps
The Marais, a vibrant Paris neighborhood inhabited over the centuries by
aristocrats, then Jews, then the LGBTQ+ community, among other groups.

#### Goals and ELOs unique to Lived Environments

Below are the Goals and ELOs specific to this Theme. As above, in the accompanying Table, for each ELO, describe the activities (discussions, readings, lectures, assignments) that provide opportunities for students to achieve those outcomes. The answer should be concise and use language accessible to colleagues outside of the submitting department or discipline. The ELOs are expected to vary in their "coverage" in terms of number of activities or emphasis within the course. Examples from successful courses are shared on the next page.

**GOAL 3:** Successful students will explore a range of perspectives on the interactions and impacts between humans and one or more types of environment (e.g. agricultural, built, cultural, economic, intellectual, natural) in which humans live.

**GOAL 4:** Successful students will analyze a variety of perceptions, representations and/or discourses about environments and humans within them.

	Course activities and assignments to meet these ELOs
<b>ELO 3.1</b> Engage with the complexity	
and uncertainty of human-	
environment interactions.	
ELO 3.2 Describe examples of human	
interaction with and impact on	
environmental change and	
transformation over time and across	
space.	
ELO 4.1 Analyze how humans'	
interactions with their environments	
shape or have shaped attitudes,	
beliefs, values and behaviors.	
<b>ELO 4.2</b> Describe how humans perceive	
and represent the environments with	
which they interact.	
ELO 4.3 Analyze and critique	
conventions, theories, and ideologies	
that influence discourses around	
environments.	