

SPEA-E 272 and SPEA-S 272

Instructor: Sarah Powers

Office: SPEA 371b

Office Hours: I will host office hours by appointment in zoom, you will be required to come to office hours once in the first two weeks. Details in Canvas

E-mail: Please use Canvas for all class correspondence. (During the week you should receive a response within 24 hours, if it is something the entire class needs, I will send to everyone. Over the weekend allow 48 hours for response)

Teaching Assistant: TBA

Class Meeting: Class will be fully online. You will have weekly tasks to complete set up as modules. You will not be required to join class during any specific time.

Required Text: Friedland and Relyea. (2016). *Essentials of Environmental Science*. Second Ed. W.H. freeman. (ISBN 131906566X)

Course Description: Introduction to Environmental Sciences: Application of principles from life and physical sciences to the understanding and management of the environment. Emphasis will be placed on (1) the physical and biological restraints on resource availability and use, and (2) the technological and scientific options to solving environmental problems

Learning Outcomes: This course will integrate the physical and biological aspects of environmental studies. We will look at different environmental issues and integrate the subject matter to evaluate earths systems. This course will give you the opportunity to look at real life issues and evaluate them both **qualitatively** and **quantitatively**. At the end of the semester, students will be able to assess complex environmental problems we face now and in the future.

Learning objectives for Introduction to Environmental Science include but are not limited to the following:

- Evaluate the credibility of written/oral/media information related to environmental science.
- Use scientific methods/scientific reasoning to evaluate complex environmental problems.
- Use quantitative skills to analyze complex environmental problems.
- Understand how fundamental scientific principals inform environmental policy.

O'Neill School expectations of civility and professional conduct¹

The O'Neill School takes matters of honesty and integrity seriously because O'Neill is the training ground for future leaders in government, civic organizations, health organizations, and other institutions charged with providing resources for the public, and for members of society who are vulnerable and who are lacking in power and status. Precisely because O'Neill graduates tend to rise to positions of power and responsibility, it is critical that the lessons of honesty and integrity are learned early.

¹ These expectations are excerpted from the O'Neill School Honor Code which can be found at: https://oneill.indiana.edu/doc/undergraduate/ugrd_student_honorcode.pdf

O’Neill requires that all members of its community – students, faculty, and staff – treat others with an attitude of mutual respect both in the classroom and during all academic and nonacademic activities outside the classroom. A student is expected to show respect through behavior that promotes conditions in which all students can learn without interruption or distraction. These behaviors foster an appropriate atmosphere inside and outside the classroom:

- Students are expected to attend class regularly and to be prepared for class.
- Students must be punctual in their arrival to class and be present and attentive for the duration of the class. Eating, sleeping, reading the newspaper, doing work for another class, wandering in and out of the classroom, and packing up or leaving class early are not civil or professional behaviors.
- Students must abide by the course policy regarding use of electronic devices in the classroom.
- Students must responsibly participate in class activities and during team meetings.
- Students must address faculty members, other students, and others appropriately and with respect, whether in person, in writing, or in electronic communications.
- Students must show tolerance and respect for diverse nationalities, religions, races, sexual orientations, and physical abilities.
- Students must not destroy or deface classroom property nor leave litter in the classroom.

Course Requirements:

COURSE GRADING

Reading/Lecture Summaries Weekly:	20 %
Exercises:	15 %
Weekly Discussion:	15 %
Group Project:	10%
Exam 1:	20 %
Final Exam:	<u>20 %</u>
TOTAL	100 %

I will use the Canvas grading scale. I do not give bonus points. You should keep up with the weekly assigned work and you will succeed in the course.

Assignments

Each topic we cover will include reading assignments from the text (with chapter outlines due), short video lectures or other media form, exercises/assignments to engage in the material, and weekly discussions. You will have one team project to create a discussion post.

Reading/Lecture Summaries: Due every Wednesday (20% of grade)

The textbook will cover most of the topics comprehensively, but lectures will help you focus on key concepts and provide additional examples. Both have value and will aid in your understanding. To hold you accountable for completing both you will have to submit weekly notes on the reading and lectures.

These are in the form of outlines of readings and lecture summaries. Assignment grades are on complete/incomplete bases. You will need to complete the assignment to a satisfactory level to earn credit. **NO** late submissions accepted.

Outline/summary guidance: (each numbered item is required for each summary)

1. Reading outline – Due this part first:

- Skim the reading materials and prepare an outline of subject headings
- Using a hierarchical structure distinguish concepts and facts at different levels of specificity
- Review lecture slides then return to the reading and summarize the text material under the headings using brief sentences
- Include specific examples that clarify the meaning of a specific concept especially if you struggle with the material covered.

- You are **not** required to include all bolded terms in the text – you do not need to prepare definition list

2. Lecture Summary – Complete after reading chapter

While watching lectures write down key points and ideas

3. Include any questions you have in regards to the material covered.

Exercises: Due on Friday (15% of grade) Short assignments as part of weekly deliverables. These assignments will help you engage with the material and expand your thinking. Some may require that you do some additional research to answer questions. These assignments will make up 15% of your final grade. Assignments help you develop your understanding of the course material and allow me to gauge your understanding. Assignments are NOT graded on accuracy, but on completion and effort. Assignments will be given most weeks except for weeks of exams. You will be allowed to drop your lowest score. I do not accept late assignments, so this will allow you the opportunity to miss one.

Discussions: Initial Response by Thursday, follow up by Saturday (15% of grade) - Each student is assigned a discussion group to participate in weekly. These discussions will expand on the materials presented in lecture. They will often include case studies on popular media and environmental science. These will help us look at current issues happening around the globe as they interact with environmental science.

Group Project: Discussion topic post (10% of grade) – You will work with a group to create a one of the weekly discussion post for the class to respond. More details provided in Canvas.

Exams (40% of grade): There will be two exams in the course a midterm and a final each worth 20% of the course grade. All exams are comprehensive. The exams are open note and open book. You will have 48 hours to complete the exams. Exams are designed for you to apply what has been covered during the semester. Questions are in the form of short responses. Each answer is approximately one paragraph in length.

Academic integrity.

Review the student code of responsibility as well as the following information

<http://www.iu.edu/~code/>.

Note Selling: Several commercial services have approached students regarding selling class notes/study guides to their classmates. Selling the instructor’s notes/study guides in this course is not permitted. Violations of this policy will be reported to the Dean of Students as academic misconduct (violation of course rules). Sanctions for academic misconduct may include a failing grade on the assignment for which the notes/study guides are being sold, a reduction in your final course grade, or a failing grade in the course, among other possibilities. Additionally, you should know that selling a faculty member’s notes/study guides individually or on behalf of one of these services using IU email, or via Canvas may also constitute a violation of IU information technology and IU intellectual property policies; additional consequences may result.

Online Course Materials: The faculty member teaching this course holds the exclusive right to distribute, modify, post, and reproduce course materials, including all written materials, study guides, lectures, assignments, exercises, and exams. While you are permitted to take notes on the online materials and lectures posted for this course for your personal use, you are not permitted to re-post in another forum, distribute, or reproduce content from this course without the express written permission of the faculty member. Any violation of this course rule will be reported to the appropriate university offices and officials, including to the Dean of Students as academic misconduct.

Course Policies:**1. Attendance Policy:**

This is a fully online course. We will not have live meetings for the course. To gauge your participation you will need to complete all weekly assignments.

2. Make-up Exams

You will have 48 hours to complete each exam. You will need prior approval to adjust an exam deadline.

3. Late Assignments

*My standard rule is no late assignments will be accepted. It creates an exceptional amount of work for me and the teaching assistant. In the event of a true emergency, you must notify **me** 24 hours in advance for me to accept your assignment. Please note that these requests cannot go through the teaching assistant.*

4. Technology Use

This is a fully online course so you will need to use technology to participate. Please see a list in Canvas of applicable technology you will need. All your work however must be your own.

GENERAL INFORMATION

I will host weekly office hours in zoom and be available for you by appointment to address any of your questions. You are required to obtain the textbook for the course. You cannot succeed in this course without it.

I ask that you all be patient as we navigate online learning together. I am doing my best to make this work for all of you. If you have questions or concerns, I want to hear from you. I will ask that most of those come during office hours so that we are able to have real conversations. It is important for us to make connections when we can during this challenging time. Please know that I am excited to have you in my class and I look forward to a successful semester.

E272 - COURSE SCHEDULE & READING ASSIGNMENTS

Topics and assignments will follow the class schedule as closely as possible; however, this schedule is subject to change. Adjustments may occur see Canvas for updates throughout the semester. Details of each week can be found on Canvas, including weekly assignments.

Week	Module	Date	Topic	Chapter Readings	Major Deadlines
1	1	24-Aug-20	Introduction to Environmental Science	1	
2	2	31-Aug-20	Matter Energy and Change	2	
3	3	7-Sep-20	Ecosystem Ecology and Biomes	3	
4	4	14-Sep-20	Evolution, Biodiversity and Community Ecology	4	
5	5	21-Sep-20	Human Population Growth	5	
6	6	28-Sep-20	Geologic Processes, Soils, and Minerals	6	
7	7	5-Oct-20	Land Resources and Agriculture	7	Midterm Exam
8	8	12-Oct-20	Nonrenewable and Renewable Energy	8	
9	9	19-Oct-20	Water Resources and Water Pollution	9	
10	10	26-Oct-20	Air Pollution	10	
11	11	2-Nov-20	Solid Waste Generation and Disposal	11	
12	12	9-Nov-20	Human Health and Toxicology	12	
13	13	16-Nov-20	Conservation of Biodiversity	13	
14		23-Nov-20	Thanksgiving Break		
15	14	30-Nov-20	Climate Alterations and Global Warming	14	
16	15	7-Dec-20	Perspective	15	
17	16	14-Dec-20	Finals Week		Final Exam

+++++

Additional information for students:

Counseling and Psychological Services

For information about services offered to students by CAPS: <http://healthcenter.indiana.edu/counseling/index.shtml>.

Religious Observation

In accordance with the Office of the Dean of Faculties, any student who wishes to receive an excused absence from class must submit a request form available from the Dean of Faculties for each day to be absent. This form must be presented to the course instructor by the end of the second week of this semester. A separate form must be submitted for each day. The instructor will fill in the bottom section of the form and then return the original to the student. Information about the policy on religious observation can be found at the following website: <https://policies.iu.edu/policies/aca-59-accommodation-religious-observances/index.html>.

Disability Services for Students

Securing accommodations for a student with disabilities is a responsibility shared by the student, the instructor and the DSS Office. For information about support services or accommodations available to students with disabilities, and for the procedures to be followed by students and instructors: <https://studentaffairs.indiana.edu/student-support/disability-services/index.html>.

Sexual Harassment

As your instructor, one of my responsibilities is to help create a safe learning environment on our campus. Title IX and our own Sexual Misconduct policy prohibit sexual misconduct. If you have experienced sexual misconduct, or know someone who has, the University can help.

If you are seeking help and would like to talk to someone confidentially, you can make an appointment with:

- i. The Sexual Assault Crisis Service (SACS) at 812-855-8900
- ii. Counseling and Psychological Services (CAPS) at 812-855-5711
- iii. Confidential Victim Advocates (CVA) at 812-856-2469
- iv. IU Health Center at 812-855-4011

For more information about available resources: <http://stopsexualviolence.iu.edu/help/index.html>. It is also important to know that federal regulations and University policy require me to promptly convey any information about potential sexual misconduct known to me to our campus' Deputy Title IX Coordinator or IU's Title IX Coordinator. In that event, they will work with a small number of others on campus to ensure that appropriate measures are taken and resources are made available to the student who may have been harmed. Protecting a student's privacy is of utmost concern, and all involved will only share information with those that need to know to ensure the University can respond and assist. I encourage you to visit <http://stopsexualviolence.iu.edu/help/index.html> to learn more.

Commitment to Diversity: Find your home and community at IU

Asian Culture Center

Address: 807 East Tenth Street, Bloomington, IN 47408

Phone: 812-856-5361

Email: acc@indiana.edu

Website: <https://asianresource.indiana.edu/index.html>

First Nations Educational & Cultural Center

Address: 712 E 8th St., Bloomington, IN 47408

Phone: 812-855-4814

Email: fnecc@indiana.edu

Website: <https://firstnations.indiana.edu/contact/index.html>

LGBTQ+ Culture Center

Address: 705 E 7th St., Bloomington, Indiana 47408

Phone: 812-855-4252

Email: glbtserv@indiana.edu

Website: <https://lgbtq.indiana.edu/contact/index.html>

La Casa Latino Culture Center

Address: 715 E 7th St., Bloomington IN, 47408

Phone: 812-855-0174

Email: lacasa@indiana.edu

Website: <https://lacasa.indiana.edu/>

Neal Marshall Black Culture Center

Address: 275 N Jordan Ave Bloomington, Indiana 47405

Phone: 812-855-9271

Email: nmgrad@indiana.edu

Website: <https://blackculture.indiana.edu/index.html>

