

**INTRODUCTION TO ENVIRONMENTAL SCIENCE**

11:375:101:01 (index #XXXXXX) Spring 20XX

**CONTACT INFORMATION:**

Instructor: Dr. Craig Phelps

Office Location: Room 229, ENR

Phone: (848) 932-5713

Email: [p Phelps@envsci.rutgers.edu](mailto:p Phelps@envsci.rutgers.edu)

Office Hours: By Arrangement

**Note:** For all e-mails, please include “ES101:01” in the subject line and give your full name.

**COURSE WEBSITE, RESOURCES AND MATERIALS:**

**Textbook:** Environmental Science: A Global Concern, 16<sup>th</sup> edition, Cunningham, Cunningham, O’Reilly, and Winsett (eText with Connect™).

This course is part of the First Day™ program of the college bookstore. The cost of your textbook and website access is included in your term bill, and you will have access to them through Canvas starting on the first day of class. Although you will have a choice to opt out of this program, the textbook material is required, and the First Day™ program guarantees the lowest cost available for your required materials.

An app for reading the text on your phone is available at

<https://www.mheducation.com/highered/explore/readanywhere.html> .

If you have any problems with access or questions about First Day™ contact Bookstore Customer Care at [bookstorecustomercare@bncollege.com](mailto:bookstorecustomercare@bncollege.com) for assistance.

**Website:** All lecture notes and homework assignments will be available through the class CANVAS site (<https://canvas.rutgers.edu/>). Tech support for the Connect™ site is available at: <https://mh.my.site.com/CXG/s/ContactUs> .

**COURSE DESCRIPTION:**

Classes will meet on Mondays and Thursdays from 10:20 to 11:40 p.m. in room 022 Loree Hall. Lecture slides, readings, and assignments will all be posted online. When possible, lectures will be streamed via Zoom and recordings posted on Canvas.

It is our goal to introduce the field of environmental science and show how an understanding of the natural world around us and the application of the scientific method can help us to address the problems facing our planet. Our specific objectives are to:

1. Introduce a variety of environmental problems, and solutions, in a scientific context.
2. Enable students to understand environmental issues using a scientific approach.
3. Improve basic scientific literacy.

**LEARNING GOALS:**

**SAS Core Curriculum Learning Goals**

Contemporary Challenges – Our Common Future [CCO]

Analyze the relationship that science and technology have to a contemporary social issue.

Natural Sciences [NS]

Understand and apply basic principles and concepts in the physical and biological sciences.

Explain and be able to assess the relationship among assumptions, method, evidence, arguments, and theory in scientific analysis.

**ASSIGNMENTS/RESPONSIBILITIES, GRADING & ASSESSMENT:**

**Requirements and Grading:**

1. Three exams: **300 points** total (Exams 1+2 = 96 pts. each, Exam 3 = 108 pts.)
2. Homework Assignments (25) in MindTap: **250 points** total.  
Due 2 days after the lecture for that unit. (assignments must be submitted for grading by 11:59 p.m.)
3. **Total class points = 550**
4. Extra Credit: up to 20 points for approved environmental volunteer experience (2 points for each hour of service.) Volunteer service must be related to the environment and pre-approved by the instructor.

Your final grade will be calculated by dividing the total number of points earned (including any extra credit) by 550 to obtain a percentage. The letter grade will be based on that percentage.

**Late Assignments and Make-Ups:**

Because meeting the deadlines and completing assignments on time are important parts of this class, late Homework Assignments without an acceptable excuse will be penalized by 10% for each day that they are late (after 7 days they will no longer be available).

Make-up Exams will only be given for an approved absence.

**COURSE SCHEDULE:**

Lecture No.	Date	Day	Topic	Reading
1			Introduction	Introduction
2			Understanding our Environment	Chap. 1
3			Principles of Science and Systems	Chap. 2
4			Matter, Energy and Life	Chap. 3.1-3.3
5			Cycles and Ecology	Chap. 3.4 + Chap. 4
6			Biomes and Ecosystems	Chap. 5
7			Ecological Economics	Chap. 23
8			Environmental Policy	Chap. 24
-			<b>Exam 1</b> – covering classes 1-9	
9			Population Biology and Human Populations	Chap. 6.1 + Chap. 7
10			Urbanization and Sustainable Development	Chap. 22
11			Environmental Health and Toxicology I	Chap. 8.1 + 8.2
12			Environmental Health and Toxicology II	Chap. 8.3 + 8.4
13			Agriculture and the Environment I	Chap. 9.2 + 9.3 + Chap. 10.1
14			Agriculture and the Environment II	Chap. 10.2–10.4
			SPRING BREAK	
15			Land Conservation and Preservation	Chap. 12
16			Earth Resources	Chap. 14.1–14.3
-			<b>Exam 2</b> – covering classes 10-17	
17			Climate and Climate Change I	Chap. 15.1-15.3
18			Climate and Climate Change II	Chap. 15.4-15.6
19			Air Pollution	Chap. 16
20			Water Use and Management	Chap. 17
21			Water Pollution	Chap. 18
22			Conventional Energy	Chap. 19
23			Sustainable Energy	Chap. 20
24			Solid, Toxic, and Hazardous Waste	Chap. 21
25			What Can We Do?	Chap. 25
			Wrap Up	
-			<b>Exam 3</b> , covering classes 18-25	

## ACCOMODATIONS FOR STUDENTS WITH DISABILITIES

Please follow the procedures outlined at <https://ods.rutgers.edu/students/getting-registered> . Full policies and procedures are at <https://ods.rutgers.edu/>

Contact me as soon as possible so that we may make any necessary arrangements to support a successful learning experience.

## ABSENCE POLICY

Attendance in class will not be recorded. However, deadlines for assignments and exams will be enforced unless a university-approved excuse is provided.

## ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available at <http://academicintegrity.rutgers.edu/academic-integrity-policy>. The principles of academic integrity require that a student:

- properly acknowledge and cite all use of the ideas, results, or words of others.
- properly acknowledge all contributors to a given piece of work.
- make sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- obtain all data or results by ethical means and report them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- treat all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitate academic dishonesty by others nor obstruct their academic progress.
- uphold the canons of the ethical or professional code of the profession for which he or she is preparing.

Adherence to these principles is necessary in order to ensure that

- everyone is given proper credit for his or her ideas, words, results, and other scholarly accomplishments.
- all student work is fairly evaluated and no student has an inappropriate advantage over others.
- the academic and ethical development of all students is fostered.
- the reputation of the University for integrity in its teaching, research, and scholarship is maintained and enhanced.

Failure to uphold these principles of academic integrity threatens both the reputation of the University and the value of the degrees awarded to its students. Every member of the University community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

## STUDENT WELLNESS SERVICES

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901/ [www.rhscaps.rutgers.edu/](http://www.rhscaps.rutgers.edu/)

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / <https://vpva.rutgers.edu/>

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling, and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

## Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>

Rutgers University welcomes students with disabilities into all the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/getting-registered>.