INTRODUCTION TO ENVIRONMENTAL SCIENCE
11:375:101:01 (index #xxxxx)  Fall/Spring
Meeting Time: TBA
Location: TBA

CONTACT INFORMATION:
Instructor: Dr. Craig Phelps
Office Location: Room 229, ENR
Phone: (848) 932-5713  Email: phelps@envsci.rutgers.edu
Office Hours: By Arrangement

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

COURSE WEBSITE, RESOURCES AND MATERIALS:

Textbook: Living in the Environment, 20th ed. Miller and Spoolman with access to MindTap®

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 an option 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.

To access your required materials for this course, please click on the “MindTap Access and Textbook” link in Canvas and go directly to the “Open Course” or similar link after setting up your Cengage account. The upgrade or free trial to Cengage Unlimited is not required for this course.

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

Website: All lecture notes and homework assignments will be available on MindTap® through the class CANVAS site (https://canvas.rutgers.edu/). Tech support for the MindTap® site is available at: http://support.cengage.com or by calling: 1-800-354-9706.

COURSE DESCRIPTION:

This course will be run asynchronously with no required meeting times. Lecture slides, reading assignments, and assignments will all be posted online. However, there will be an opportunity to review the material with the professors and ask questions in real time each Tuesday and Friday from 10:55 – 12:15 p.m. during Zoom conferences. These sessions will be recorded and posted for students who cannot attend.

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 = 108 pts., Exams 2 + 3 = 96 pts. each)

2. Homework Assignments (10) in MindTap: 100 points total.
   Due Dates (assignments must be submitted for grading by 11:59 p.m.):
   #1: xx  #6: xx
   #2: xx  #7: xx
   #3: xx  #8: xx
   #4: xx  #9: xx
   #5: xx  #10: xx

3. Lecture Quizzes (25) in Canvas: 100 points total.

4. **Total class points = 500**

5. 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 500 to obtain a percentage. The letter grade will be based on that percentage, which may be curved depending on the course average.

Late Assignments and Make-Ups:

Because meeting the deadlines and completing assignments on time are important parts of this class, late assignments without an acceptable excuse will be penalized by 50%. Exam make-ups will only be given for a University-approved absence.
ACCOMODATIONS FOR STUDENTS WITH DISABILITIES
Please follow the procedures outlined at https://ods.rutgers.edu/students/registration-form. 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
This course is being offered asynchronously so there are no classes to be missed. However, deadlines for assignments and exams will be enforced unless a university-approved excuse is provided.

COURSE SCHEDULE:

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<thead>
<tr>
<th>Lecture No.</th>
<th>Date</th>
<th>Day</th>
<th>Topic</th>
<th>Reading</th>
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<tbody>
<tr>
<td>1</td>
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<td>Introduction</td>
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<td>Sustainability</td>
<td>Chap. 1</td>
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<td>Nature of Science, Matter and Energy</td>
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<td>Matter, Energy and Systems</td>
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<td>Ecosystems and Cycles</td>
<td>Chap. 3</td>
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<td>Economics</td>
<td>Chap. 23</td>
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<td>7</td>
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<td>Policy, Ethics and Worldview</td>
<td>Chaps. 24 + 25</td>
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<td>8</td>
<td></td>
<td></td>
<td>Biodiversity and Population Ecology</td>
<td>Chap. 4.2-3, + Chap. 5</td>
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<td>Human Population</td>
<td>Chap. 6</td>
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<td><strong>Exam 1</strong> – covering classes 1-9</td>
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<td>Climate and Biodiversity</td>
<td>Chap. 7</td>
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<td>Land Management (Sustaining Ecosystems)</td>
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<td>Aquatic Ecosystems</td>
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<td>Aquatic Resource Management</td>
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<td>Food Production and the Environment</td>
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<td>Water Resources</td>
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<td><strong>SPRING BREAK</strong></td>
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<td>Water Pollution</td>
<td>Chap. 20</td>
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<td>Water Systems</td>
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<td><strong>Exam 2</strong> – covering classes 10-17</td>
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<td>Health and Toxicology II</td>
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<td>Air Pollution</td>
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<td>Solid and Hazardous Waste I</td>
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<td>Solid and Hazardous Waste II</td>
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<td><strong>Exam Review</strong></td>
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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

Just In Case Web App  http://codu.co/cee05e
Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

Counseling, ADAP & Psychiatric Services (CAPS)
(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901/ 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 / www.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
Rutgers University welcomes students with disabilities into all of 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 in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: https://ods.rutgers.edu/students/registration-form.

Scarlet Listeners
(732) 247-5555 / https://rutgers.campuslabs.com/engage/organization/scarletlisteners
Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.