

THE DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE

## Chemistry: Spring 2023 Course Syllabus

**NJIT Academic Integrity Code:** All Students should be aware that the Department of Chemistry & Environmental Science (CES) takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

### COURSE INFORMATION

**EPS 202 Course Description:** This course introduces students to the interdisciplinary field of environmental studies and explores the interrelationships between science, technology, environment, and society. We examine the social and scientific origins of environmental problems and evaluate the complex role of technology in creating and resolving these concerns. The perspective of the course is broadly social scientific, though this mode of investigation takes place against the background of a scientific appreciation of current environmental dilemmas. We will consider both the local and global implications of current social activities on the environment and investigate specific issues such as air pollution, water contamination, ozone depletion, declining biodiversity, population, and climate change. Other topics include energy, food production, biotechnology, and the environmental implications of contemporary consumption practices.

**Number of Credits:** 3

**Prerequisites:** None

**Course-Section and Instructors:**

**Class Time:** Monday - 06:00- 08:50 PM

**Location:** Kupfrian 209

Course-Section	Instructor
EPS 202 SECTION 102	SWEETA CHAUHAN
EPE 202 HONOR	SWEETA CHAUHAN

**Office Hours for All Chemistry & Environmental Science**

**Instructors:** Sweeta Chauhan

**E-mail:** [sc93@njit.edu](mailto:sc93@njit.edu); [chauhan@rutgers.edu](mailto:chauhan@rutgers.edu)

**Office:** 141 Smith Hall, Rutgers University

**Office Hours:** Monday 11:30 AM – 12:30 PM OR By appointment

**Required Textbook:** No Textbook

**University-wide Withdrawal Date:** The last day to withdraw with a W is Tuesday, January 24, 2023. It will be strictly enforced.

## POLICIES

All CES students must familiarize themselves with, and adhere to, all official university-wide student policies. CES takes these policies very seriously and enforces them strictly.

**Grading Policy:** The final grade in this course will be determined as follows:

Homework/Class work/ Class participation	10%
Quizzes	30%
Midterm Exam I	20%
Writing Assignment	20%
Final Exam	20%

The evaluation of student performance in this course is based on five components:

- 1. Midterm examination (20%):** There will be a midterm exam comprised of multiple-choice or short-answer questions and brief essays. This exam will be based on course lectures, discussion sessions, and assigned readings.
- 2. Final examination (20%):** There will be a final exam conducted during the end-of-semester exam period. The format of the final exam will be the same as the midterm exam; it will be based on course material covered during the semester.
- 3. Homework/Class work/ Class participation (10%):** Students are expected to attend all lectures and attendance will be taken at each session. You will be required to sign a daily attendance sheet and late arrival (more than fifteen minutes) will be treated as an absence. Each student will however be granted **two** “free absences” during the semester.
- 4. Quiz (30%):** A quiz will be given in class every Monday to assess your familiarity with the weekly lectures and the required readings. **IF YOU COME IN 10 MINUTES LATE FOR CLASS, YOU WILL MISS THE QUIZ.** There will be no make-up quizzes or late submission under any circumstances. I will drop the lowest grades in calculating your final scores. Be aware: Academic Honor Code is applied.
- 5. Writing Assignments (8+12%):** One/Two research papers will be required during the semester. Schedule for the assignments will be determined at the start of the semester (see the schedule on the syllabus). Instructions for the assignment will be emailed prior to deadlines. All completed assignments must be submitted in class at the start of class on the day of the deadline.

The assigned readings/Homework/Class work are designed to give you background knowledge needed to understand the subject matter covered in class. The readings for each topic should be read **prior** to the class. The more you are able to read the better prepared you will be for class discussions.

Supplement readings: handouts and journal articles that will be available on via email. **Canvas Announcemet will be sent out every week with details regarding what will be covered next week in class including Homework/Class work/ Class discussions.** ***Students are advised to check their emails regularly.***

Your final letter grade in this course will be based on the following tentative curve:

A	Above 90	C	70-74
B+	85-89	D	60-69
B	80-84	F	Below 60
C+	75-79		

Final grades are not subject to post-semester adjustment—except for an amendment due to a grading error.  
*Under no circumstances will students be given an opportunity to complete extra-credit papers or other*

assignments to bolster their final grades.

**Attendance Policy:** Attendance at classes will be recorded and is **mandatory**. Each class is a learning experience that cannot be replicated through simply “getting the notes.”

**Homework Policy:** Homework is an expectation of the course. The homework problems set by the instructor are to be handed in for grading and will be used in the determination of the final letter grade as described above.

**Exams:** There will be two midterm exams held in class during the semester and one comprehensive final exam. The following exam periods are tentative and therefore possibly subject to change:

Midterm Exam I	March 20
Writing Assignment	April 24
Final Exam Period	May 5 - 11 TBA

**Makeup Exam Policy:** There will normally be **NO MAKE-UP QUIZZES OR EXAMS** during the semester. In the event that a student has a legitimate reason for missing a quiz or exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor’s note, police report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the CES Department Office/Instructor that the exam will be missed so that appropriate steps can be taken to make up the grade.

**Cellular Phones:** All cellular phones and other electronic devices must be switched off during all class times. Such devices must be stowed in bags during exams or quizzes.

## **ADDITIONAL RESOURCES**

**Chemistry Tutoring Center:** Located in the Central King Building, Lower Level, Rm. G12. Hours of operation are Monday - Friday 10:00 am - 6:00 pm. For further information please click [here](#).

**Accommodation of Disabilities:** Office of Accessibility Resources and Services (**formerly known as Disability Support Services**) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director at the Office of Accessibility Resources and Services at **973-596-5417** or via email at [lyles@njit.edu](mailto:lyles@njit.edu). The office is located in Fenster Hall Room 260. A Letter of Accommodation Eligibility from the Office of Accessibility Resources Services office authorizing your accommodations will be required.

For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Accessibility Resources and Services (OARS) website at:

- <http://www5.njit.edu/studentsuccess/disability-support-services/>

**Important Dates** See: Fall 2020 Academic Calendar, Registrar  
<https://www5.njit.edu/registrar/fall-2020-academic-calendar/>

## Course Outline

**Schedule:** following topics will be covered. Topics are subjected to change according to class interest or class cancelation due to snowstorms.

Lecture	Section	Topic	Assignment
1	Week 1	Introduction	
2	Week 2	Worldviews and the Environment	Quiz 1 and CW1/HW1
3	Week 3	Origins of Environmentalism	Quiz 2
4	Week 4	Toxics and Risk in the Environment	Quiz 3
5	Week 5	Chemical and Manufacturing Industries	Quiz 4
6	Week 6	Environmental Health and Water Resources	Quiz 5
7	Week 7	Food Production & Review for Midterm Exam	Quiz 6
8	Week 8	Midterm Exam & Environmental Justice	
9	Week 9	Population Growth	Quiz 7
10	Week 10	Energy Policy and Global Impacts	Quiz 8
11	Week 11	Climate Change and International Agreements	Quiz 9
12	Week 12	Sustainable Development and Consumption	Quiz 10
13	Week 13	Biodiversity, Biotechnology and Species Conservation	Quiz 11
14	Week 14	Final Exam	