

**NATURAL SCIENCES DEPARTMENT
HOSTOS COMMUNITY COLLEGE
of THE CITY UNIVERSITY OF NEW YORK**

ENV 111/XXXXX

ENVIRONMENTAL SCIENCE I LAB

CREDIT: 1 credit, 2-hr laboratory

COREQUISITES: ENV 110 (3 credit, 3-hour lecture), MAT 100 SI; ESL 91 or ENG 91 or higher

Meeting time:		Course Modality: In person
Room:		
Course Instructor		
Office Hours:		
Email:		
Phone:		
Contact Policy:	<ul style="list-style-type: none"> ○ When sending an e-mail, be sure to put key information in the Subject area. Make sure to include your full name and class section. Use your Hostos e-mail. I will answer your message in less than 48 hours. ○ When requesting an appointment outside my office hours, speak to me before you come. Notify me immediately if you need to cancel or change an appointment. ○ If you need to reach me by phone, please leave a brief message with your contact information. I will get back to you. 	

REQUIRED MATERIALS: ENV11-Lab Manual: <https://guides.hostos.cuny.edu/env111> (Zero-cost material)
Safety Goggles (required for all laboratory sessions): Type approved for the chemistry laboratory: Indirect ventilated, ANSI Z87.1

COURSE DESCRIPTION: This one-credit laboratory course familiarized students with environmental issues around us. Students will perform experiments and will have hands-on experience in recognizing and examining different environmental problems related to air, water pollution, energy and water. Students will learn how individual consumption can make a difference in energy use, waste reduction, and indoor/outdoor pollution levels. Students will learn how to identify an environmental problem, analyze and interpret experimental data, and write a lab report.

STUDENT LEARNING OUTCOMES:

At the end of this course students will:

- Understand the scientific method, the how we know what we know, and why knowledge about the world is important:
 - Develop and practice observational skills.
 - Record experimental observations.
 - Record and interpret experimental data.
 - Make inferences and draw conclusions from experimental data.
 - Write a simple laboratory report.

- Learn and understand the basic principles of measurements and statistics, both concepts that are essential tools for students to discuss, evaluate, and compare properly experimental results.
- Know and understand the composition of air and the atmosphere, the conditions and sources affecting them.

The students will analyze and know alternatives to minimize or prevent these conditions. Students will know about natural pollution, Industrial Smog, Photochemical Smog, Acid Rain, the Ozone layer, and Global Warming among others.

- Know about surface and ground water and about the natural and chemical contamination affecting these. The students will also know about water treatment plants and the alternatives to minimize and prevent water contamination.
- Connect theoretical knowledge from ENV110 with laboratory experiments conducted in this course.

GRADE DISTRIBUTION:

Laboratory	100%
Lab quizzes and final Exam	30%
Pre-Lab Assignments/Initial Question	10%
Lab Work	30%
Lab Report/Lab work submission	30%

WORK EXPECTATIONS AND ASSESSMENT TOOLS:

Pre-Lab Assignments/Initial Question: Check the laboratory schedule for the experiment you’ll be doing each week. Before we begin a new lab experiment in class, you are to read through the introduction and procedures for that experiment and answer any pre-lab questions.

Lab work: Each week, students will develop the laboratory activities, complete the data sheets, including experimental observations and any calculations, answer the questions at the end of the activities. analyze and interpret the data, and discuss results in the class. They will then be responsible to upload completed lab work in Blackboard or submit it to the instructor.

Quizzes and Final Exam: There will be three Quizzes that will be used to assess students’ understanding of laboratory activities. Each Quiz will cover previous laboratory experiment material.

Science/Earth Week Participation: The participation in this activity will be graded as Quiz 3. Guidelines will be posted on Blackboard and be explained at class. This can vary depending on instructor and term.

CLASS PARTICIPATION and CLASS POLICY:

- Check Blackboard regularly for updates: You don’t want to miss any announcements, instructions, information related to the course.
- If you have an absence from a weekly activity, you will receive a grade of zero for that week, and no lab report will be accepted for that activity.
- More than FOUR (4) absences from lab activity will result in a failing grade (F) in this course.
- Students requiring special accommodation and/or using the Accessibility Resource Center should contact the instructor privately to discuss required accommodation.

GRADING POLICY: The grade of Incomplete (I) is given in regular courses upon request of the student for personal emergencies that are verifiable. The faculty member has the responsibility to provide Inc grade only to those students who are passing the course. The student has the responsibility to take the initiative in completing the work, and is expected to make up the incomplete during the first semester in residence after receiving the grade of Incomplete. If the student does not make up the incomplete during the following semester after receiving it, the faculty member may give an F grade without further consultation with the student. If after the

end of the first semester the Inc remains on the record it will be designated as an F and will be computed in the student's GPA.

Letter	Grade Range	Point Value	Letter Grade	Range	Point Value
A	93-100	4.0	B-	80-82	2.7
A-	90-92	3.7	C+	77-79	2.3
B+	87-89	3.3	C	70-76	2.0
B	83-86	3.0	D	60-69	1.0
			F	0-59	0.0

Attendance: Students are expected to attend all class meeting in the courses for which they are registered. Classes begin at the times indicated in the official schedule of classes. Arrival in class after the scheduled starting time constitutes lateness.

The maximum number of absences is limited to 15% of the number of scheduled class hours per semester and a student absent more than the indicated 15% is deemed excessively absent. Attendance is monitored from the first official day of classes. In the case of excessive absences or lateness, the instructor has the right to lower the grade, assign a failing grade, or assign additional written work or readings.

Absences due to late registration, change of program, or extenuating circumstances will be considered on an individual basis by the instructor. Each department and program may specify in writing a different attendance policy. Instructors are required to keep an official record of student attendance and inform each class of the College's or department attendance policy.

Course Schedule		
Week	Lab Session	Lab Number
Week 1	-Introduction to Course: Lab safety rules - Lab 1: <i>Measurement in the Laboratory</i>	1
Week 2	- Lab 1: <i>Measurement in the Laboratory (continuation)</i>	1
Week 3	-Lab 2: Scientific Method	2
Week 4	QUIZ 1 (Labs 1 and 2) -Lab 3: Biodegradation of waste in landfills (to be resumed later in the term)	3
Week 5	Lab 4: Statistic and Graphing	4
Week 6	-Lab 5: <i>Greenhouse Gases</i>	5
Week 7	QUIZ 2 (Labs 3 and 4) -Lab 6: Testing water sample for major pollutants	6
Week 8	-Lab 7: <i>Simulation of a Water treatment Plant</i>	7
Week 9	-Lab 8: Renewable Energy	8
Week 10	- Lab 9: <i>Bioremediation (Oil hungry bacteria)</i>	9
Week 11	<i>High Impact Practice: Common Intellectual Experience (Earth Day/Science Day Participation). This date is subject to change. This participation grade represents Quiz 3. Instructor will decide student specific participation</i>	10
Week 12	-Lab 10: Biodegradation of waste in landfills (continuation) (Evaluation of the Results obtained after 8 Weeks of Degradation)	3
Week 13	- <i>Case Study or Final Presentation preparation</i>	11
Week 14	<i>Case Study (continuation) or Final Presentation</i>	12
Final Exam Week	<i>Final Quiz (Final Exam Week)</i>	

ACADEMIC INTEGRITY: Hostos Community College believes that developing student's abilities to think through issues and problems by themselves is central to the educational process. Since the Hostos College degree signifies that the student knows the material s/he has studied, and the practice of academic dishonesty results in grades or scores that do not reflect how much or how well the student has learned, understood, or mastered the material, the College will investigate any form of academic dishonesty brought to its attention. If the charge of academic dishonesty is proved, the College will impose sanctions. The three most common forms of academic dishonesty are cheating, plagiarism, and bribery.

In the collegiate setting, cheating is defined as the purposeful misrepresentation of another's work as one's own.

Faculty and students alike are responsible for upholding the integrity of this institution by not participating either directly or indirectly in act of cheating and by discouraging others from doing so. Plagiarism is a form of cheating which occurs when persons, even if unintentionally, fail to acknowledge appropriately the sources for the ideas, language, concepts, inventions, etc. referred to in their own work. Thus, any attempt to claim another's intellectual or artistic work as one's own constitutes an act of plagiarism. In the collegiate setting, bribery involves the offering, promising, or giving of items of value, such as money or gifts, to a person in a position of authority, such as a teacher, administrator, or staff member, so as to influence his/her judgment or conduct in favor of the student. The offering of sexual favors in exchange for a grade, test score, or other academic favor, shall be considered attempted bribery. The matter of sexual favors, either requested or offered, in exchange for a grade, test score or other academic favor, shall also be handled as per the Sexual Harassment procedures of the College.

If you are suspected of plagiarism or cheating or if you attempt to bribe or influence your professor, you will be immediately reported to the college's Academic Integrity Officer. You will be unable to drop the class. The penalties range from an F with a score of 0 for an assignment to Failure for the entire term to expulsion from The City University of New York.