Fall 2024

EVSC 335-001: Gen Chemistry Lab II

Michael Bonchonsky

NJIT New Jersey Institute of Technology

THE COLLEGE OF SCIENCE AND LIBERAL ARTS

THE DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE

EVSC 335 Fall 2024 Syllabus
Environmental Law:

Course-Section and Instructor: EVSC 335-001 Michael P. Bonchonsky live lecture FMH Rm 106. Meet ups with instructor via zoom or in person by appt., Office Hrs Tiernan 356: 10:30-11:30 and after class 12:50-2:00

Class: "In Person" lectures Tu and Th 11:30- 12:50. Rm FMH 106 for Fall semester 2024
First class Tues Sept 3, 2024, classes end Dec 11, 2024

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.

Students are asked to practice care and attention concerning academic honesty, with the understanding that all cases of plagiarism, cheating, multiple submission, and unauthorized collaboration are subject to penalty. Students must properly cite and attribute all sources used for papers and assignments. Students may not collaborate on exams or assignments, directly or through virtual consultation, unless the instructor gives specific permission to do so. Posting an exam, assignment, or answers to them on an online forum (before, during, or after the due date), in addition to consulting posted materials, constitutes a violation of the university's Honesty policy. Likewise, unauthorized use of live assistance websites, including seeking "expert" help for specific questions during an exam, can be construed as a violation of the honesty policy. All students should be familiar with the NJIT Academic Integrity Code

COURSE INFORMATION

Course Description: This course covers the major features, fundamentals and principles of modern environmental law and is offered from the perspective of a practicing environmental scientist and engineer. The historical development and roots of environmental law are analyzed and described. Topics include for example the major features of the Clean Water Act and related programs for protecting the water environment. These major provisions include for example, the Watershed management program, the dredge and fill provisions, the national pollution discharge elimination system permit program, etc. In a similar manner each of the major environmental laws will be reviewed and synthesized (see syllabus topics below) in the context of their historical development and current implementation.

Number of Credits (see NJIT catalog): 3cr; **Prerequisites:** HUM 102

Office Hours Chemistry and Environmental Science Instructors: See Canvas Fall 2024 Office Hours and Emails: michael.p.bonchonsky@njit.edu Webex/zoom by apptment and before class 10:30-11 and after class until 2 PM.

Required Textbook:
Required Text: in bookstore…Environmental Law Handbook ISBN 978-1-64143-350-1, 2019, author: Thomas F P Sullivan, ed.; Publ.: The Rowman and Littlefield Publ. Group, Inc., Berman Press

Title	Environmental Law Handbook
Author	Thomas F. P. Sullivan, ed.
Edition	24rd edition, 2019 (scenic woods cover)
Publisher	Berman Press
ISBN #	ISBN 978-1-64143-350-1

University-wide Withdrawal Date: The last day to withdraw with a **W** is November 11, 2024. (always check academic calendar).

Learning Outcomes:

Note: The emphasis in each of these environmental statutes covered will be on the technical science and engineering requirements of each module topic such as standards and limits. The overarching purpose is to inform technical students of the regulatory context for the practice of environmental science and engineering.

General Environmental law: Compare the technical requirements of statutory law with common law; describe the development and roots of environmental law and its standards and limits.

Clean Water Act: Compare modern provisions and objectives (CWA) with historic goals for clean water, Understand major provisions (CWA); Relate current water conditions to modern regulatory requirements; Design a water discharge permit; Compare ambient and effluent limits; Apply watershed management approaches to the control of water pollution.

Clean Air Act: Describe major provisions and show evolution of regulatory controls; Apply CAA to modern issues: global climate change, acid rain, identify major provisions (CAA); Predict trends in ambient levels of each criteria pollutant; Understand the role of secondary pollutant controls in human society

Safe Drinking Water Act: Analyze health implications of and basis for the regulation of major parameters controlled; Identify changes in potable water treatment resulting from regulatory provisions; Know the technical system of selecting (by regulatory agency) parameters for control; Compare the roles of the levels of government involved in drinking water controls

Hazardous Waste regulation, Resource Conservation and Recovery Act and CERCLA Superfund program: Apply the legal definition of hazardous waste and hazardous materials emphasizing technical aspects of same, and compare; Apply the major provisions to an industrial manufacturing facility; Describe the required major features of remediation of a historically contaminated industrial site.

POLICIES

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

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

Quizzes	30
Midterm Exam	30
Final Exam	30
Participation	10

The final letter grade for this course will be assessed as below:

Final Grade	Overall Academic Performance (100%)
A	90 and Above
B+	85-89
B	80-84
C+	75-79
C	70-74
D	60-69
F	Below 60

Attendance Policy: It is mandatory that weekly lectures be taken in per week through live attendance in class as

shown on Canvas. 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 assignments set by the instructor are shown on Canvas. Discussion forum participation is required each week and will be used in the determination of the "participation" portion of the final letter grade as described above.

Exams: There will be a midterm exam and two quizzes held in class during the semester and one comprehensive final exam. The following exam periods are tentative and therefore possibly subject to change (see Canvas for any updates): see table below for dates.

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.

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

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 Office of Accessibility Resources and Services or via email: oars@njit.edu at 973-596-5417. The office is located in Kupfrian Hall 201. 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 2024 Academic Calendar, Registrar)…See last page full calendar

Key dates for F 2024 See Canvas for any changes Canvas posting controls		
First class	Sept 3, 2024	Read Chapter One, as assigned on Canvas
First quiz	Sept 26, 2024	Material covered in first 4 wks
Midterm	Oct 24, 2024	Material covered in first 7 weeks
Second quiz	Nov 14, 2024	Material covered week 7-11
Final	TBD	Exam date/week as published by NJIT

Course Outline 2024

(see Canvas for any changes and updates, weekly dates
[Canvas dates controls])

Week 1 Tu 9/3- 9/5 2024 Introduction: The nature of environmental rules and regulations
Text: Chap 1
Course outline and synopsis
Syllabus (see Canvas)
Study Guide (see Canvas)

Week 2: 9/10-9/12 Common law, Administrative Law
Chap 1, 2

Week 3: 9/17-9/19 Clean Water Act:
Week 4: 9/24-26 CWA continued
Chap 6
Discharge permits, effluent guidelines, non point source, spill prevention

Week 5: 10/1-10/3 Clean Air Act Quiz 1: 9/26
Chap 5 Primary, secondary standards; required technology levels

Week 6: 10/8-10/10 Safe Drinking Water Act
Chap 8 Emphasizing drinking water standards, and associated requirements

Week 7: 10/15-10/17 National Environmental Policy Act (NEPA)
Chap 10 Environmental Impact Statements

Week 8: 10/22-10/24 Review and Midterm Exam (Oct 17)

Week 9: 10/29-1-10/31 Toxic Substances Control Act
Chap 12 (TSCA chapter)

Week 10: 11/5-11/07 Introduction to Hazardous Waste Law: Resource Conservation and Recovery Act (RCRA)
Chap 3 (RCRA chapter)

Week 11: 11/12-11/4 RCRA Part II, Chap 3 con't.

Week 12: 11/19-11/21 Superfund law: CERCLA Quiz #2 Nov 14
Chap 9 (CERCLA chapter)

Week 13: 11/26- no class T-day 11/28 2024 CERCLA Superfund continued

Week 14: 12/03-05- Who is Responsible for Remediation?

Week 15: 12/10/2024- Review

Exam Week Final exam date determined by NJIT exam schedule

Fall 2024 Academic Calendar as follows:

Sept	2	Labor Day. University Closed
Sept	3	First Day of Classes
Sept	9	Last Day to Add/Drop a Class
Sept	9	Last Day for 100% Refund, Full or Partial Withdrawal
Sept	10	W Grades Posted for Course Withdrawals
Sept	16	Last Day for 90% Refund, Full or Partial Withdrawal - No Refund for Partial Withdrawal after this date
Sept	30	Last Day for 50% Refund, Full Withdrawal
Oct	21	Last Day for 25% Refund, Full Withdrawal
Nov	11	Last Day to Withdraw from Classes
Nov	26	Thursday Classes Meet
Nov	27	Friday Classes Meet
Nov	28	Thanksgiving Recess Begins. No Classes
Dec	1	Thanksgiving Recess Ends
Dec	11	Last Day of Classes
Dec	12	Reading Day 1
Dec	13	Reading Day 2
Dec	14	Saturday Classes Meet
Dec	15	Final Exams Begin
Dec	21	Final Exams End