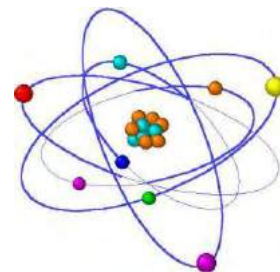




Chemistry 10100
Inquiries into the Nature of Matter
Hunter College of the City University of New York
Department of Chemistry



Lecturer:

Office hours:

Lecture:

Lab Coordinator:

Welcome to Chemistry 10100- Inquiries into the Nature of Matter

This is a one-semester 3 credit course designed specifically for non-science majors and nursing students who are required to take a one-semester general chemistry laboratory course. Chemistry is a challenging and often abstract science, but as you progress through this course we hope you will discover that chemistry is also exciting and that many of the key concepts in chemistry are both important and relevant to life on earth. Throughout this semester we will provide you with the basic skills and knowledge to think and feel like a chemist. You will learn that chemistry is exciting!

Recommended Textbook: Any introductory chemistry textbook will work, as will free online resources. If you are taking Chemistry 10000 as well, you can use the book required for that course.

Blackboard 9.1: You have to use your hunter email to log in on Blackboard. Instructions on how to access the course website on blackboard can be found at: <http://bb.hunter.cuny.edu>. You should check the site regularly. It can also be used to communicate with your classmates. Blackboard is an excellent tool. I will periodically post announcements, additional resources and helpful hints. The lectures presented during the class will be available under the **Course Documents** section. Each lecture will be posted online after the class.

Email: You can find information about Hunter email through a link at: <http://www.hunter.cuny.edu/icit/help-docs/e-mail-faq>. Your username and password should have been mailed to you. Please make sure that if you are not using this email account, you set your mail to forward to an account that you do check regularly. Instructions on how to forward mail can be found through the link above. We will be sending you important emails through blackboard. The information you may miss is likely to impact your grade if I don't have email contact with you.

Required Clicker: We will be using iclickers in the class.

iClickers can be purchased at iclicker.com or any online website where you can find new or used clickers ("clicker 2" or "clicker +" only). If you already own an iClicker from a previous course it can be used again for this course. **Once you have purchased your iClicker you will need to register.** There is a nominal fee for registering a used clicker that was not initially registered in your name.

To register your iClicker:

1. Log on to <https://www.iclicker.com/remote-registration-form-for-classic>
2. Complete the registration questions. **Note: You must register using your full first and last name and your Hunter College ID number.**

To find your Blackboard/ID number: log in on blackboard and under tools on the left side you will see personal information. Click on that, then click edit personal information and on that page you will see username and a **8 digit ID number**. Alternatively, look at your Hunter ID. That's the one you need to copy and paste for your iclicker registration. Iclickers will count as your participation in the class. More details will be provided on the first day of class.

A. DESCRIPTION

This course will present essential facts, laws, and theories of general chemistry.

B. OBJECTIVES

Upon successful completion of this course, the student will be able to develop problem-solving skills, use definition, concepts, and ideas to predict how a chemical process will occur, and test the understanding of the basic concepts.

C. EXAMINATION POLICY

1. Cheating on an exam will result in an automatic disciplinary F for the course.
2. Students who arrive after the first exam has been turned in will not be allowed to take the exam even if the lateness was not their fault.
3. Extra time will not be given to students who arrive late.
4. NO MAKE-UP EXAMS!!

All cell phones, CD players, MP3 players, etc., must be turned off while in the class. Any students who disrupt the class will be asked to leave. NO cell phones or tablets are permitted during the exams.

D. GRADING POLICY

Graded element	TOTAL Points
Iclicker Questions	70
Exam 1	100
Exam 2	100
TOTAL	270

Your overall letter grade will be based on the total number of points you earn in both the lecture (270 pts) and laboratory component (680 pts) of the course. The total number of points that can be earned in this course is **950**. This total will be converted to a percentage (out of 100%) and scaled according to the Hunter College Grading system.

Tentative Lecture Schedule

Subject to change without notice

<u>Date</u>	<u>Lecture Topic</u>
	The Science of Chemistry
	Matter and Change
	Scientific Inquiry Method
	NO CLASS – MONDAY SCHEDULE
	Error in Data
	The Atom
	Bonding
	Exam 1
	Solutions
	Acids and Bases
	Nuclear Chemistry
	Organic Chemistry
	Applications exploration of significant areas of interest in chemistry
	Biochemistry
	Exam 2

1. Academic Integrity Statement: "Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures."
2. ADA Statement: "In compliance with the ADA and with Section 504 of the Rehabilitation Act, Hunter College is committed to ensuring educational access and accommodations for all its registered students. Hunter College's students with disabilities and medical conditions are encouraged to register with the Office of AccessABILITY for assistance and accommodation. For information and appointment contact the Office of AccessABILITY located in Room E1214 or call (212) 772-4857 /or VRS (646) 755-3129."
3. Hunter College Policy on Sexual Misconduct "In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.
 - a. **Sexual Violence**: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).
 - b. **All Other Forms of Sexual Misconduct**: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct Link:

<http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-with-links.pdf>

Chemistry 10100 Inquiries into the nature of matter

**Hunter College of the City University of New York
Department of Chemistry**

Lab Lecturer: Dr. Gabriela Smeureanu gsmeurea@hunter.cuny.edu

Lab Coordinator: Dr. Gabriela Smeureanu gsmeurea@hunter.cuny.edu

Laboratory location: Brookdale Campus Room BC 201 or BC 203

Phone: (212) 481 5150

Brookdale Campus is located at 425 E 25 St. (25 St between 1st ave and FDR)

Grading Policy:

Your overall letter grade will be based on the total number of points you earn in both the lecture and laboratory components of the course. The total number of points that can be earned in this course is **1000 (270 pts from the lecture component and 730 pts from the lab)**. This total will be converted to a percentage (out of 100%) and scaled according to the Hunter College Grading system.

Lecture Graded element	TOTAL Points
IClicker Questions	70
Exam 1	100
Exam 2	100
TOTAL	270

Laboratory Graded element	Notebook Points	Post-Lab points	TOTAL
Attendance (5 pts per lab meeting)	-	-	60
Safety Quiz	-	-	20
Experiment 1	25	25	50
Experiment 2	25	25	50
Experiment 3	20	30	50
Experiment 4	20	30	50
Experiment 5 - Part 1	38	32	100
Part 2	30		
Experiment 6	30	20	50
Experiment 7	35	15	50
Experiment 8	30	20	50
Experiment 9	27	23	50
Experiment 10	30	20	50
Experiment 11	30	20	50
Scientific Presentation/Poster	-	-	50
TOTAL			730

LABORATORY POLICY:

LABORATORY POLICY:

You will be allowed one excused absence for the semester. Any subsequent absences will result in a grade of zero for that experiment. If you are more than 10 minutes late for lab you will not be allowed to complete the experiment. This will count as your one excused absence for the semester. **NO MAKE-UP labs.**

One lab with the lowest score will be dropped (so your lab points will be out of 670).

All cell phones, pagers, CD players, MP3 players, etc., must be turned off while in the class. Any students who disrupt the class will be asked to leave.

SUMMARIES:

A typed summary of each lab is to be submitted at the beginning of class– this is to ensure you have read the instructions for the lab that will be performed that day. Lab summaries should consist of 3-4 sentences and are worth 2 points each as part of weekly class participation.

All cell phones, pagers, CD players, MP3 players, etc., must be turned off while in the class. Any students who disrupt the class will be asked to leave.

NO cell phones or pocket PCs are permitted during the assessments/quizzes.

In the first day of lab you will be require to have:

- Chemistry 101 “Inquiries into the nature of matter” Laboratory Manual by D. McGregor, P. Mills, G. Smeureanu available for purchase ONLY at Shakespeare bookstore across Hunter College

OR online at : <http://hunter.textbookx.com/institutional/>

- Carbonless Copy Laboratory Notebook 50 pages – Introductory chemistry lab notebook - for purchase ONLY at Shakespeare bookstore across Hunter College

OR online at : <http://hunter.textbookx.com/institutional/>

- Calculator
- Safety glasses (available at Hunter College bookstore or any hardware store)

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Hunter College of the City University of New York
Chemistry and Biochemistry Department
~ Syllabus for Chemistry 10100~

Teaching Assistant:

Email:

Office hours:

Dates	Experiment Title
	Check-In, Safety in the Chemistry Lab/Safety Video
	SAFETY QUIZ Lab 1 The “Mysterious Matter” Column
	Lab 2 Messing with the Mixtures: A scientific Dilemma <i>Lab 1 laboratory report and post lab questions due</i>
	Lab 3 Chemist make things: Change that matters <i>Lab 2 laboratory report and post lab questions due</i>
	Lab 4 Precipitation Reactions part 1 <i>Lab 3 laboratory report and post lab questions due</i>
	Lab 5 Precipitation Reactions Part 2.1-collecting data <i>Lab 4 laboratory report and post lab questions due</i>
	Lab 5 Precipitation Reactions Part 2.2- analyze and graph data
	Lab 6 Precipitation reactions Part 3 <i>Lab 5 laboratory report and post lab questions due</i>
	Lab 7 Rainbow Cabbage <i>Lab 6 laboratory report and post lab questions due</i>
	Lab 8 Titration Competition <i>Lab 7 laboratory report and post lab questions due</i>
	Lab 9 Oxygen, Oxygen, Oxygen → What a flame <i>Lab 8 laboratory report and post lab questions due</i>
	Lab 10 That’s Cool <i>Lab 9 laboratory report and post lab questions due</i>
	Lab 11 Alka Selzer and the escaping gas <i>Lab 10 laboratory report and post lab questions due</i>
	Presentation day (poster/power point) <i>Lab 11 laboratory report and post lab questions due</i> Check-out

Important Notices: Whenever in lab, **Always Wear the Eye Protection: Goggles or Safety Glasses (points will be deducted from your attendance/class participation score).** Lateness is not tolerated. **If you arrive late, you are not allowed to attend the lab. There are NO Make - Ups for missed labs.**