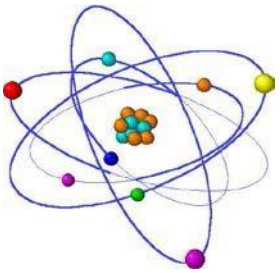
Chemistry 10600
Hunter College of the City University of New York Department of Chemistry & Biochemistry



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Note: This Syllabus may be subject to change.

Welcome to Chemistry 10600

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!

The lab course runs twice per week with one class synchronous in person and one class online synchronous in ZOOM. Make sure you have access to your class in Brightspace and the email listed in your account there is the right email you use and check regularly. That's the only way we will be able to communicate with you.

Brightspace:
You must use your hunter/cuny credentials to log in on Brightspace.
You should check the site regularly. It can also be used to communicate with your classmates.
Brightspace is an excellent tool. I will post periodically announcements, additional resources and helpful hints.

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 use. Instructions on how to forward mail can be found through the link above. We will be sending you important emails through Brightspace. The information you may miss is likely to impact your grade if I don't have email contact with you.

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, test the understanding of the basic concepts.

C. GRADING POLICY

Your overall letter grade will be based on the total number of points you earn in the course. The total number of points that can be earned in this course is **1740.** This total will be converted to a percentage (out of 100%) and scaled according to the Hunter College Grading system.

20 Laboratories	**1390 pts**
Scientific Presentations x 2	**100 pts**
Excel Exercise	**40 pts**
Safety Quiz	**10 pts**
Attendance/class participation/summaries	**100 pts**
Labs skills practical	**100 pts**

D. LABORATORY POLICY:

Lab are running synchronous in the days and at the times they we scheduled. Attendance for each laboratory experiment is **MANDATORY**. 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 your 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.**

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.

E. SUMMARIES:

A typed summary of each lab is to be submitted in Brightspace– 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 Attendance/Class participation.

F. LAB REPORTS:

Lab reports are to resemble the format found at the back of your lab manual and be turned in promptly in BRIGHTSPACE by the due date. Each student is responsible for submitting/uploading in Brightspace their own lab report. Lab reports will be graded, and feedback will be provided. Your lowest lab report will be dropped– I would suggest completing all the lab reports in case you find that one is more difficult than another. **LATE LAB REPORTS WILL NOT BE ACCEPTED**. Some lab reports may take a full day to complete so I recommend doing a little each day so that you're not pulling all-nighters to complete them. DO NOT WAIT UNTIL THE LAST MINUTE!

No title page or TOC - double-sided ideal. No more than 2 pages ideally (for the written portion) – obviously the graphs / data will add more pages to the report. If you can fit it all on 1 page, great, but must answer the grading criteria and rubric.

This is not a creative writing class, so don't want to see content like…Joe walked briskly to the sink and scrub the beaker with all his might before using the acetone to dry it – 1) Definitely don't describe the washing process in your report, 2) Science writing is very straight to the point. If you are unsure about how to do science writing, you can look it up on the web to see how it's done. Procedure must be in bullets.

If an error was done in the experiment, explain what happened. Don't be vague or try to guess what happened – own it and you will get full points. If you say something like, the equipment is defective – then I know something is up.

To get ahead on writing lab reports: Make your summaries like your introductions so that you can get ahead on the next sections of the lab! Make sure that it syncs with the criteria for what an introduction should look like per the lab manual.

Data tables and graphs must be labeled and with proper names. Students submitting identical reports will result in a zero for that report and will be reported to the Chemistry department. Calculations must be typed unless otherwise stated.

Plagiarism will not be tolerated.

G. MATERIALS TO BRING EACH CLASS:

Lab manual, calculator, personal laptop, notebook for recording observations.

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

- Laboratory Manual: Chemistry 106 "General Chemistry Laboratory" by G. Smeureanu and S. Geggier (available for purchase ONLY at Shakespeare bookstore or Hunter College online bookstore)
- Carbon Copy Laboratory Notebook 100 pages or any notebook -- (available for purchase ONLY at Shakespeare bookstore or Hunter College online bookstore)
- Calculator
- Computer

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"

Department

~ Tentative Syllabus for Chemistry 10600~

	Intro and Safety Safety video and certification Excel exercise
	What is around us? **"Chemistry is LiFe" (Lab 1)**
	Is volume conserved? "The sneaky ethanol molecules" (Lab 2)
	Data Analysis "Up in the air" (Lab 3 Part A)
	Data Analysis "Up in the air" (Lab 3 Part B)
	What is in my sample? "Let's find the cations (Lab 4 Part A)
	What is in my sample? "Let's find the cations (Lab 4 Part B)
	Molecular models (Lab 5)
	VSEPR and molecular shape **"How does it look?" (Lab 6)**
	How much is a mole? "Avogadro's Number Dilemma" (Lab 7 Part A)
	How much is a mole? **"Avogadro's Number Dilemma" (Lab 7 Part B)**
	Molecules and reactions "Foiled again" (Lab 8 Part A)
	Molecules and reactions **"Foiled again" (Lab 8 Part B)**
	Scientific Presentation 1
	Reactants and products – An Online Simulation **"I am in equilibrium" (Lab 9)**
	Le Châtelier's Principle "Where do I shift?" (Lab 10)
	Acid, bases and Ka **"Where is my Lewis pair?" (Lab 11)**
	Heartburn and *"AUNTY ACID"* (Lab 12)
	Drop some acid. Drop some base ***"I am a little buffer"* (Lab 13)**
	Acids, bases, salts and buffers *"Acids and bases are pHun!!!"* (Lab 14)

	Titration curves **“Drop the Base” (Lab 15)**
	Galvanic cell “LEO the lion goes GER” (Lab 16)
	Calorimetry and Thermochemistry “Stealing Joules”(Lab 17)
	Coffee-Cup Calorimetry ***“Burning Food. Where are my carbs?”*****(Lab 18)**
	Kinetics Iodine-Clock reaction (Lab 19)
	Kinetics Data, Activation energy (Lab 20)
	Scientific Presentation2 Lab Practical Exam