HUNTER COLLEGE OF THE CITY UNIVERSITY OF NEW YORK
Department of Chemistry & Biochemistry
ESSENTIALS OF GENERAL CHEMISTRY
Chemistry 100 *Syllabus Spring 2025*

Professor: Dr. Kirsten J. Grant
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E-mail: chem100professor@gmail.com

Office Hours: Via Zoom (see zoom links below)

Dr. Grant	Tu 2-3pm, Th ~~4-5pm~~ 5:30-6:30pm, Zoom Link
Andrew Szafran	Tuesdays 12:30-1:30pm, Zoom Link.
Nestor Paulino	Wednesdays 3-4pm, Zoom Link

Course Number: CHM10000 Sections 01 and X-01 (merged course)
Course Times: Tuesday and Thursday 7:00pm-8:15pm
Course Format: Hybrid/Flipped—online coursework and assignments and in-person meetings
Course Location: Rm 118-HN (Auditorium) on Thursdays, also on Zoom (Zoom Link)

A. COURSE DESCRIPTION
This course will present essential facts, laws, and theories of general chemistry using active learning techniques and web-enhanced learning opportunities. This course is designed to develop students' problem-solving skills in introductory chemistry; to teach the definitions, concepts, and ideas to predict how a chemical process will occur; and to test the understanding of the basic chemical concepts. The course will be offered in a in-person format.

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

C. COURSE LEARNING OUTCOMES (CLOs)
Upon successful completion of this course, students should be able to:

1. Discuss the steps of a scientific method and apply the steps to how experiments are used to shape scientific knowledge.
2. Pay proper attention to units and significant figures and using "dimensional analysis" where appropriate to perform algebraic calculations involving metric system and temperature conversions, the density equation, the heat transfer equation, the mole concept, stoichiometric relationships in reactions including enthalpy calculations, the gas laws, solution concentrations and dosages, half-life of radioactive substances, and acid-base pH calculations.
3. Describe the chemical and physical properties of matter including solutions based on trends in the periodic table, the models of atomic and electronic structure, and intermolecular forces.
4. Explain phase changes of matter and the energy changes associated with them.
5. Recognize and draw the basic model of the atom and electron configurations, discuss changes in Dalton's Atomic Theory, identify and write atomic, ionic and nuclear symbols, describe nuclear decay, and identify isotopes used in nuclear medicine.
6. Differentiate between ionic and covalent compounds paying attention to bonding patterns between

atoms, the names and formulas of binary compounds (ionic and molecular) and acids.

7. Apply the knowledge of drawing Lewis structures for molecules and polyatomic ions to determine molecular geometry and shape, and polarity.
8. Apply the knowledge of Law of Mass Conservation to balance chemical equations and recognizing various types of chemical reactions.
9. Apply the concepts of the gas laws to calculate changes in gas temperature, volume, pressure and number of moles.
10. Apply knowledge of reaction energies, reaction rate, equilibrium, and Le Chatelier's principle to chemical reactions.
11. Explain the basic principles of Arrhenius Acids/Bases, and Bronsted Acids/ Bases and apply these concepts to the calculations of pH, and identifying buffers

Methods of Assessing Outcomes
The expected learning outcomes will be assessed using online assignments, exams, workshop assignments and the final exam.

D. COURSE SETUP:

This course is a hybrid course with in-person sessions in a flipped model.

- **Tuesdays—*on your own learning via watching lecture videos posted on Brightspace AND on Tophat.com.*** You will be responsible for ***answering lecture questions*** to check your understanding of the lecture content that will ***count towards your overall assignments points***. These questions will be due on Tuesday nights at 11:59pm.
  - ***Dr. G will be online via Zoom*** for you to come and ask questions on Tuesdays if you need clarification on the week's topic.
    - When you join you will have to raise your hand and wait to be called on or post your question in the Q&A.
    - Questions will be answered in the order they are asked.
    - Any questions not answered during lecture will be answered via video and posted on Brightspace AND Tophat.com later that day.
  - ***s before an exam***: In person exam reviews (and on Zoom). These ***sessions are MANDATORY***, attendance is required (in person or on Zoom), and you will earn ***points for answering questions*** during the session that will ***count towards your overall participation points for the course.***
- **Thursdays—*we will meet IN-PERSON OR ONLINE via Zoom to go over the study check and in-class questions posted in the unit power point lecture notes***. These notes will be posted to Tophat.com. Be sure to attempt to answer the questions BEFORE the live session to maximize your learning and points. **These sessions are MANDATORY** and you will earn points for **answering questions on Tophat.com during the session that will *count towards your overall participation points for the course*.**
- **ALL EXAMS ARE IN PERSON:** Hunter North Rm 118 (auditorium across from 69th Street entrance of the north building). See the course schedule below for exam dates.

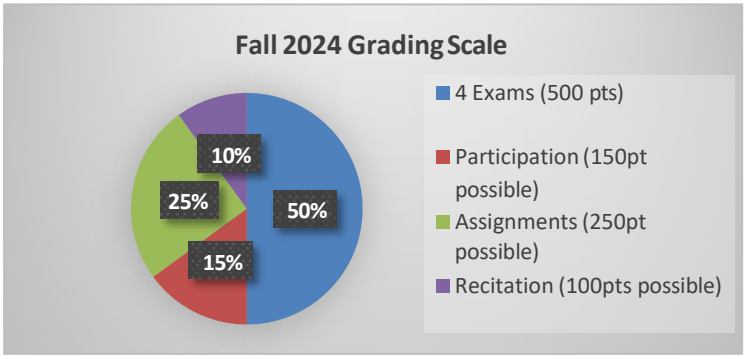
E. GRADING:

Grades follow Hunter's grading system: Final Grades will be calculated to the first decimal place and will not be rounded up to next grade for any reason. They will be posted according to the Hunter College Grading Scale at the website below.

https://hunter.cuny.edu/students/registration/records-and-transcripts/grading-structure/

Grading Scale:

4 Exams (500 pts)	(50%)
Participation (150pt possible)	(15%)
Assignments (250pt possible)	(25%)
Recitation (100pts possible)	(10%)
1000pts	(100%)



Assignments Grade:

1. **11 Highest Reading Assignment scores (165pt)**—on TopHat "Assigned" tab in Unit folders
2. **10 Highest Lecture Video Assignment scores (75pts)**
3. **Diagnostic Quiz (5pt)**— on TopHat "Assigned" tab
4. **Syllabus Quiz (5pt)**—on TopHat "Assigned" tab

Participation/Attendance Grade:

1. **Live in-class questions (total adjusted to 150pt, includes 10pts for attendance)**—on Tophat "Classroom" tab during lectures

Recitation Grade:

1. **Highest 10 Workshop Assignment scores (50pt)**
2. **Highest 10 AI Assignment scores (50pt)**

F. EXAMINATION POLICY

1. **ALL STUDENTS must take** exams **IN PERSON on paper** during the days and times listed on the course schedule.
2. ***There are 4 exams, the highest of the 4 exams will count twice.***
   - Take all 4 exams, highest grade counts as 20% and the other three grades are worth 10% (50% total) of overall course grade.
   - For example: Exam #1 (98%), Exam #2 (93%) Exam #3 (89%), Exam #4 (91%)
     55% of overall grade = (98*0.20) + (93*0.10) + (89*0.10) + (91*0.10)
     = 46.9pts towards overall course grade
3. Missed Exam Policy: **<u>NO MAKE-UP EXAMS.</u>** ***Only one missed exam will be allowed***, **EXCEPT the 4th exam**, and you must take all remaining exams to avoid earning an F or WU in the course.
   - If you miss an exam, the average of the remaining 3 exam grades will replace the missed exam grade. Highest exam grade DOES NOT count twice (12.5% x 4 = 50%)
   - For example: Exam #1 (missed), Exam #2 (93%) Exam #3 (89%), Exam #4 (91%)
     Exam #1 = (93+89+91)/3 = 91%
     55% of overall grade = (91*0.125) + (93*0.125) + (89*0.125) + (91*0.125)
     = 45.5pts towards overall course grade
   - **Students MUST take the 4th exam.** It is not a cumulative final exam; however, the missed exam policy is not acceptable for missing the fourth exam. ***Missing the 4th exam without an official withdraw will result in a "WU" for the course. Missing the 4th exam MUST be accompanied by a verifiable document of illness or death of a close relative to prevent an "WU" course grade on your transcript.*** With documentation, and if you have a B (82.5%) or better prior to missing the 4th exam, you will be given an INC and must take the 4th exam before the end of the following semester to replace the INC on your transcript. With documentation, and if you have less than 82.5% prior to the 4th exam, a grade of "0%" for the 4th exam will be used to calculate the overall exam grade.
4. **<u>NO EXCUSE</u>** will be accepted for missing more than one exam. ***Missing more than one exam will***

result in an "F" grade for the course.

G. REQUIRED COURSE MATERIALS:

1. TOPHAT.COM

Tophat.com: Essentials of General Chemistry, 2nd Edition (Spring 2025)
Unique Course URL:

Textbook Content and Classroom Materials: Course Join Code 199434

- This course requires the use of Top Hat (http://www.tophat.com) a classroom engagement tool that is designed to assess your understanding of course material in class.
- ***It is your textbook resource*** for this class. You must use the join code above to access all textbook content and course assignments.
- In addition, you will be able to engage in discussions and submit answers for participation grades to in-class questions using iPhone, Android smartphones and tablets, laptops, or through text message. Please see information below on how to create your account online and on your device.
- You can download the app from the app store (Google Play or Apple) and use your iPhone, Android smartphones and tablets to complete assignments.
- **All course PowerPoints, the syllabus, additional resources, videos, problem sets, and helpful hints will be posted here**.
- You will be questioned and given participation points on your reading of the material before attending study/practice sessions. The purpose is to ensure you read and take notes to maximize learning and in-class participation points.

Purchase Access to Tophat Materials Here: https://app.tophat.com/billing/course/199434/
Directly through the link above **(CHEAPEST OPTION, IMMEDIATE ACCESS)**. Fill out the requested information and you will be prompted to purchase the required materials for the semester.

a. Tophat Textbook/Platform Combination ($90 directly from the website, but more when purchasing from the Hunter online bookstore). Use the link below to create your account to access the TopHat.com textbook and course materials.

Create a new account: https://app.tophat.com/register/student/enter-info/?join_code=199434

If you already have a Tophat.com account use the following link https://app.tophat.com/e/199434 **to get direct access to the course. You will be directed to sync your account to the new SSO login using your @login.cuny.edu account information**.

After you create your account using a computer, install the app on your mobile device to complete assignments on the go. Use the following links
Top Hat App (Apple Store)
Top Hat App (Google Play Store)

You can visit the Top Hat Overview (https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system including how to answer specific question types for the greatest success.

If you are unable to make your purchase right away, you can use a 14-day free trial from the time you access your course materials.

- *If after your 14day free trial you are unable to make your purchase, let me know and I will request another 14-day extension.*
- ***There is a limited number of scholarships for TopHat access, so if after the 28days contact me ASAP since the scholarships are first-come first serve.***

Tophat.com Support:
Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of **email (support@tophat.com), the in app support button, or by calling 1-888-663-5491.**

The best method is by sending your request via email so that your interaction can be traced and Tuitored

2. SCIENTIFIC CALCULATOR: NO GRAPHING or CELL PHONE CALCULATORS ALLOWED on exams. ***You must use an actual scientific calculator with log function to take exams***. If you choose to borrow one from the library or another source for exams, be sure to know how to use it BEFORE attending the exam session. Here are a few cheap options from Amazon (although any scientific calculator will do)
Option #1: Yamhoho brand, $4.99
Option #2: Noennull brand, $7.79
Option #2: Texas Instruments TI-30XIIS, $9.48

H. REQUIRED RECITATION WORKSHOPS:

In addition to the lecture, you are responsible for submitting a weekly recitation assignment called a workshop. Please see your schedule for the section you are registered for. Only attend your assigned recitation section.

- **Please see your schedule to determine your recitation day and time. All recitation sections will meet in Room C109 Hunter North (basement of the North building).**
    - **Tuesday recitations begin 2/4, Wednesday recitations begin 2/12, Friday recitations begin 2/7**
- See the last pages of the syllabus for the recitation information, assignments and grading policies
- Please see the Recitation Schedule provided by your instructor and in the Tentative Class Schedule below for workshops that will be assigned for a given week.
- Videos to assist you with completing workshop assignments will also be posted on Top Hat and your instructor will post them on Brightspace for each assignment. Watch the videos for each assignment prior to attending workshop sessions to maximize your learning each week.

I. COURSE ASSIGNMENTS:

No late work or extensions are allowed on assignments because answers are released once the due date has passed. If you are having troubles completing any assignment ***BEFORE*** the due date ***FOR ANY REASON***, contact me ***PRIOR*** to the due date so that we can come up with a solution.

- In-class questions may ONLY be excused if an **emergency** is properly documented (i.e. doctor or hospital note, etc.). Normal doctor's appointments will result in a missed assignment/points unless there are extenuating circumstances. Hospital stays or emergency room visits for you or a close relative count as emergencies.
- You may be excused from an assignment or in-class questions ONLY if contact has been initiated by the student NO MORE than 3 days after a missed due date or class session WITH a documented emergency.
- An unexcused missed assignment will count as one (1) dropped score based on the grading policies for each assignment type.

1. **On Tophat.com (please see information above for the textbook). All Tophat assignments will have direct access links found in the weekly modules on Brightspace for ease of access. You must be logged into your Tophat account for the link to work properly**
    1) **TopHat Quizzes (THQ): Located in the "Assignment Tab"—10pts total**

- **Syllabus Quiz—5pt towards assignments points**
- **Diagnostic Quiz: 5pts towards your assignments points regardless of your actual score.**
    - This quiz will be used to determine the content that you already know and what you will need to spend extra time studying throughout the semester.
- There are ***2 attempts for each THQ question***; NO feedback will be provided when you answer incorrectly, and ***you will be shown the correct answer after the due date has passed.***
    - **Each question is worth 75% correctness/25% participation**

2) TopHat Reading Assignments (RA): Located in the "Assignment Tab"—165pts total

- Lots of your learning of the content will take place outside of class sessions and you are expected to read the unit, watch the embedded videos, review the worked problems and complete the questions to earn credit for the corresponding lecture listed in the course schedule below.
- There are 13 assignments worth ***15pts each***. The lowest two (2) scores are dropped for a total of ***165pts for your Assignment grade***.
- Each assignment is ***due on Sundays @ 11:59pm*** after the content is covered in lecture.
- There are ***reading review, test your knowledge,*** and ***discussion*** questions in each assignment.
    - The ***reading review (RR) questions*** cover the concepts that you should focus on when writing your notes and appear throughout the reading text. Many of them are fill in the blanks directly from the text. ***(25% participation, 75% correctness pts)***
    - The ***"Try It!" test your knowledge (TYK) questions*** are for you to practice the concepts calculations you learned from the content presented in the previous section. ***(25% participation, 75% correctness pts)***
    - The ***discussion questions*** are for critical thinking about how you can apply the concepts you learned to real life or other situations. ***(100% participation pts.)***
        - ***The last discussion question in every Unit Reading assignment is a summary of what you have read. You are to write an outline or summary of the entire unit by hand and upload your notes to the question.*** You may write your notes digitally or on paper. Be sure to watch the videos posted in the Start Here page in Brightspace regarding how to create a pdf of your written work on paper and how to upload your work to Brightspace.
- There are ***3 attempts per question*** in each RA and feedback will be provided when you answer incorrectly; ***you will be shown the correct answer after the due date has passed.***

3) Lecture Video Assignments (LVA): Located in the "Assignment Tab"—75pts total

- Each week you are responsible for watching lecture videos and submitting answers to comprehension check questions based on the videos you watched.
- There are 12 assignments worth ***7.5pts each***. The lowest two (2) scores are dropped for a total of ***75pts for your Assignment grade***.
- Watch videos on Tuesdays and ***submit answers by 11:59pm each Wednesday*** (regardless of whether the college is closed or no classes are scheduled for that day by the college with the exception of Labor Day)**.**

4) In-Class Participation and Attendance: Located in the "Classroom Tab"

- Participation points will be earned by answering questions in class during lecture sessions on Tuesday and Thursday evenings. Questions will be presented through the "classroom" tab on TopHat.
    - Be sure to log in to TopHat when you attend classes.
    - **Attendance** will be taken within the first 15min of each lecture for ***1pt per session***
        - ***Total attendance 10pts***. There are 13 scheduled in-person meetings, thus, you will be allowed 3 missed attendance points automatically.
        - ***The following Tuesday attendance prior to an exam is required for participation and attendance points***
            - Tu 3/18 and Tu 4/22

- **In-Class questions** ***will be presented during in-person sessions ONLY.*** No questions can be made up after class sessions.
  - ***Only those with a documented excuse will be excused from attendance and participation points;*** missed points will not count against you.
  - **Questions count towards your Participation grade--worth 1pt each**
    - 25% for participating, 75% for correctness
  - There will be 1-15 questions presented during each lecture
  - ***Total in-class points will be adjusted to 150pts***

EXTRA CREDIT ASSIGNMENTS:

1) **Unit 10 Assignment: Online learning module on TopHat.com**
   - Contains videos for lecture content, PPt lecture notes, links to tutorial websites, and practice problems on Tophat.
     - **Unit 10 Nuclear Chemistry—Due ~~Sunday~~ ~~12/15~~ Wednesday 5/14 @ 11:59 pm (EXTRA CREDIT, not required)**
       - ***Earn up to 15 points extra credit towards your participation grade*** by completing the quiz (5pts) and answering the questions within the unit (10pts)
2) **Exam Extra Credit: JoVE Video Quizzes. Due the day before exams (original exam date). Check the links for specific due dates**
   - **Due Dates:** 11:59pm on 2/19, 3/19, 4/23, 5/21
   - There are 10 JoVE videos and quizzes in the "JoVE Videos and Quizzes" link in the left menu in the main course page on BS.
   - You must watch the each video before you can access the video quiz.
   - ***Earn UP TO 1pts for each quiz completed added to the upcoming exam grade average (not to the exam point total)***
     - Quizzes have 5 questions scored for correctness only.
     - Final attempt is the graded attempt
3) **Exam 4 Review Session on Zoom 5/20/25:** earn 5pts towards total participation points by answering at least 5 questions correctly during the zoom session.

I. IMPORTANT COURSE INFORMATION and POLICIES:

1. **Type of Device:** You must have a web-enabled device and reliable wi-fi to actively participate during in-person sessions. You may use a smartphone, desktop or laptop computer, or tablet to access TopHat during in-person sessions and to complete course assignments.
   - **A computer is the preferred device to complete reading and video assignments on TopHat.** It will be easier to view all materials in TopHat using a computer.
     - Check the following website for laptop and other device loans: Hunter Technology Loans.
       - You may be able to get a semester long for a laptop, be sure to check with the library for more information
   - You must download the most up to date version of the TopHat application (please see textbook information above for details) to use a smartphone or tablet, AFTER setting up your account on a computer. Be sure to set the app to get automatic updates.
   - When using a computer, **log into your TopHat account on the CHROME or FIREFOX browser for the best user experience. If you are using a Mac computer, download the latest CHROME or FIREFOX browser for the best user experience on TopHat.com.**

     DO NOT USE Safari to complete work on Tophat.com
2. **Brightspace:**
   - Links to assignments on Tophat.com, the syllabus, Power Point Lecture (PPt) Notes, announcements, course feedback, will be accessible via Brightspace.

It is your responsibility to check the course Brightspace page DAILY for updates and announcements.

- You must use your @login.cuny.edu account information to log in on Brightspace (BS) account.
- Instructions on how to access the course website on Brightspace can be found by clicking on the following link:
- Make sure that you have your Hunter or other CUNY email updated in Brightspace since **ALL announcements/course updates will be sent to the email address on record in Brightspace.**

3. **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. I 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.
   - To ensure that you get a prompt response from me, please send all email correspondence to: **chem100professor@gmail.com**
   - I will respond to emails from Sunday morning at 9am to Friday afternoons at 5pm. I will generally respond within 24hrs (between 9am-9pm) of receipt of emails from students. Please send a follow-up message if I do not respond within that timeframe.
   - ***Emails sent to my Hunter email account may not get a response after the first day of classes.***
   - ***DO NOT respond to any emails sent via Brightspace, only emails sent to my Gmail account will be checked daily for student correspondence***.
4. **Course time commitment:** as per the NYS Higher Education Services Corporation ***"the typical 3-credit course would require 45 hours in class and 90 hours of supplementary, outside assignments."*** Thus, you should spend ***a minimum of 6 hours per week***, outside of scheduled class time studying and preparing for any course. Some students may need more or less than 6 hours to learn the content required for achieving a desired letter grade. ***Make sure to create a weekly schedule to allow for ample study time for each of your registered courses.***
5. **Office Hours:**
   - **Office hours are for everyone**, not only people who are struggling. Students that are doing well in the course are encouraged to attend to get better.
   - This time is for you to get your questions answered about the course and materials, to review content, and to interact with the professor and recitation instructors.
   - Office Hours will be online via Zoom unless otherwise noted. The office hours link will be provided within the first week of classes in an announcement on Brightspace.
6. **Review of assignment and exam grades: I will review your grade for any assignment or exam within two (2) weeks after the due date (assignments) or the date the grade is posted to Brightspace (exams), by 5pm on the last day.** You MUST email me (chem100professor@gmail.com) with your request and any specific questions that you want me to review within the two-week timeframe. ***No grade review will take place after the 2-week window has passed under any circumstances.***
7. **Inclement Weather and other unknowns:** If circumstances prevent me, the professor, from being able to attend scheduled lectures, I will do my best to let you know in a timely manner. Regardless of whether there is an in-person session, you are responsible for the material that would have been covered during that session. If necessary, a learning module with the content that would have been covered that day will be presented on TopHat.com for you to complete.

Please let me know if you experience circumstances that make completing the requirements challenging.

If you are having a difficult time in the course for ANY REASON, contact me AS SOON AS you

encounter a problem so that we can work out a solution.

8. **Academic Dishonesty:** 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.
9. **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 East-1214B, call (212) 772-4857 /or VRS (646) 755-3129, or send an email to tgumbs@hunter.cuny.edu.

   Access & Techonology Center: Room North-300, call 212-772-5478
10. **Hunter College Policy on Sexual Misconduct (link)**: 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.
13. **Hunter College Pass/No Credit Option: This course *is not eligible* for the Pass/No-Credit option.**
14. **Withdrawal:** If an emergency arises, the student must immediately notify the instructor and agree upon a course of action, especially if the student is unable to complete the course. ***The last day to withdraw from classes is Tuesday 4/1/25 with "W" designation.*** The specific policies and dates for withdrawal are available online. Only the student (not the instructor or staff) may officially withdraw from a course.

    Failure to officially withdraw AND missing the 4th exam will result in a WU in the course.
15. **Changes to the syllabus and/or course schedule:** This syllabus is a guide for the course and the instructor reserves the right to make changes to the course schedule and/or information contained in the syllabus. Changes may include but are not limited to changes in the due date of assignments, content covered on exams, exam dates and times, etc. **Any changes will be made with prior notice and are at the discretion of the professor. Changes will be announced in class,** and **posted** to **the course schedule** on **Brightspace.**

CONTINUE TO THE NEXT PAGE FOR THE TENTATIVE COURSE SCHEDULE

TENTATIVE CLASS SCHEDULE

Fall 2025 Semester Calendar with important dates link

CLASS DATES	TOPICS	ASSIGNMENTS
Weeks = Mon-Sun	**Tuesdays:** Watch lecture videos on your own, no online lecture unless otherwise noted below **Thursdays:** in-person practice sessions	**(all assignments due 11:59pm on due date)** **RA** = TopHat Reading Assignment **LVA** = Lecture Video Assignment **WKSP** = Workshop Assignments to be completed in scheduled recitation section in groups **AI**= Recitation AI practice assignment
Week 1 **Tu 1/28** **Th 1/30**	Unit 1— Measurements and Calculations in Chemistry **Th** session will include questions from Unit 1 PPt lecture notes	**NO RECITATIONS THIS WEEK** **Create your Tophat.com account:** • **Click on the following link (**https://app.tophat.com/register/student/enter-info/?join_code=011433**).** **Follow these instructions for creating a Top Hat Account for help.** **On Brightspace:** • Review ALL content on Brightspace Welcome Module **On TopHat:** • Week 1 LVA—**Due Wed 1/29—anyone joining the class late, please email me for an extension for this assignment ONLY**
Week 2 **Tu 2/4** **Th 2/6**	Unit 2—Matter and Energy **Th** session will include questions from Unit 2pt1 and 2pt2 PPt lecture notes	**On TopHat:** • Intro Unit RA and Unit 1 RA—**Due Sun 2/2** • Week 2 LVA—**Due Wed 2/5** • Syllabus Quiz—**Due Fri 2/7** • Diagnostic quiz—**Due Fri 2/7** **All Recitations:** **WKSP #1:** Conversions, Temperature and Heat Calculations; **AI #1**
Week 3 **Tu 2/11** **Th 2/13** Wed 2/12 college closed	Unit 3—Atoms and Periodic Table **Th** session will include questions from Unit 3pt1 and 3pt2 PPt lecture notes	**On TopHat:** • Unit 2 RA—**Due Sun 2/9** • Week 3 LVA—**Due Wed 2/12** **Tu and Fri Recitations ONLY:** **WKSP #2:** Electron Configurations; **AI #2** **No Wednesday recitations this week**

CLASS DATES	TOPICS	ASSIGNMENTS
Week 4 **Tu 2/18** (Mon schedule) **Th 2/20** Mon 2/17 college closed	**Tu:** No exam review due to Monday schedule. **Th: Exam #1** Units 1-3 7-8:15pm in-person	**On TopHat:** • Unit 3 RA—**Due Sun 2/16** **Wed recitations ONLY:** **WKSP #2:** Electron Configurations; **AI #2** **No Tu or Fri recitations this week**
Week 5 **Tu 2/25** **Th 2/27**	Unit 4pt1—Ionic and Molecular Compounds **Th** session will include questions from Unit 4pt1 PPt lecture notes	**On TopHat:** • Week 5 LVA—**Due Wed 2/26** **All Recitations:** **WKSP #3:** Compounds, Bonding and Lewis Structures; **AI #3**
Week 6 **Tu 3/4** **Th 3/6** (Wed schedule—no class)	Unit 4pt2—Ionic and Molecular Compounds cont. **Th:** no in-person session today	**On TopHat:** • Unit 4A RA—**Due Sun 3/2** • Week 6 LVA—**Due Wed 3/5** **All Recitations:** **WKSP #4**: Shapes and Molecule Polarity, Intermolecular Force; **AI #4** **Wed recitations meet on Th 3/6 during normal class time**
Week 7 **Tu 3/11** **Th 3/13**	Unit 5—Gas Laws **Th** session will include questions from Unit 5 PPt lecture notes	**On TopHat:** • Unit 4B RA—**Due Sun 3/9** • Week 7 LVA—**Due Wed 3/12** **All Recitations:** **WKSP #5:** Gas Laws; **AI #5**
Week 8 **Tu 3/18** **Th 3/20**	**Tu:** Exam Review—mandatory attendance in person or on Zoom **Th: Exam #2** Units 4-5 (6 Qs total from Units 1-3) 7-8:15pm in person	**On TopHat:** • Unit 5 RA—**Due Sun 3/16** **Tu and Wed Recitations:** **Review WKSP #2-5 content—**students in Fri recitations can join one of the Tu or Wed recitations

CLASS DATES	TOPICS	ASSIGNMENTS
Week 9 **Tu 3/25** **Th 3/27**	Unit 6— Solutions **Th** session will include questions from Unit 6A and 6B PPt lecture notes	**On TopHat:** • Week 9 LVA—**Due Wed 3/26** **All recitations:** **WKSP #6:** Solutions and Concentrations; **AI #6**
Week 10 **Tu 4/1** **Th 4/3**	Unit 7— Classification of Chemical Reactions **Th** session will include questions from Unit 7A PPt lecture	**On TopHat:** • Unit 6 RA—**Due Sun 3/30** • Week 10 LVA—**Due Wed 4/2** **All recitations:** **WKSP #7:** Classifying and Balancing Reactions; **AI #7**
Week 11 **Tu 4/8** **Th 4/10**	Unit 7— Classification of Chemical Reactions cont. **Th** session will include questions from Unit 7B PPt lecture	**On TopHat:** • Unit 7A RA—**Due Sun 4/6** • Week 11 LVA—**Due Wed 4/9** **All recitations:** **WKSP #8**: Moles, Chemical Formulas, Reactions and Stoichiometry; **AI #8**
Week 12 **Tu 4/15** **Th 4/17**	**SPRING BREAK** **Sat 4/12-Sun 4/20** **NO CLASS THIS WEEK**	
Week 13 **Tu 4/22** **Th 4/24**	**Tu:** Exam Review—mandatory attendance in person or on Zoom **Th: Exam #3:** Units 6-7 (4 Qs total from Units 4&5) 7-8:15pm	**On TopHat:** • Unit 7B RA—**Due Sun 4/20** **All Recitations:** **Review WKSP #6-8 content**
Week 14 **Tu 4/29** **Th 5/1**	Unit 8— Chemical Reactions: Energy, Rates and Equilibrium **Th** session will include questions from Unit 8A lecture notes	**On TopHat:** • Week 14 LVA—**Due Wed 4/30** **All recitations:** **WK #9** Energy; **AI #9**

CLASS DATES	TOPICS	ASSIGNMENTS
Week 15 **Tu 5/6** **Th 5/8**	Unit 8— Chemical Reactions: Energy, Rates and Equilibrium cont. **Th** session will include questions from Unit 8B PPt lecture notes	**On TopHat:** • Unit 8A RA—**Due Sun 5/4** • Week 15 LVA—**Due Wed 5/7** **All recitations:** **WK #10** Equilibrium; **AI #10**
Week 16 **Tu 5/13** **Th 5/15**	Unit 9—Acids and Bases **Th** session will include questions from Unit 9 PPt lecture	**On TopHat:** • Unit 8B RA—**Due Sun 5/11** • Week 16 LVA—**Due Wed 5/14** **All recitations** **WK #11:** Acid and Bases, pH Calculations, and Buffers; **AI #11**
Final Exam Week Fri 5/16-Th 5/22	**Tu** 5/20 Extra Credit Exam Review on Zoom ONLY (not mandatory) **<u>Exam #4:</u>** Units #8-9 (4 Qs total from Units 6-7, 2-3 Q from Unit 10) Extra Credit) ***Thursday 5/22 6:20pm***	**On TopHat:** • Unit 9 RA—**Due Sun 5/18**

<u>CONTINUE TO THE NEXT PAGE FOR RECITATION INFORMATION AND POLICIES</u>

Essentials of General Chemistry (CHEM100)
Recitation (Workshop) Grading Policy

Once a week for Essentials of General Chemistry you will attend a recitation. During recitation you will work in groups of 3-4 students to solve a set of problems called a workshop. Workshops are intended to help you learn to solve more difficult chemistry problems in a cooperative fashion. Solving problems as a group is a beneficial process for all. If you already know the material, then explaining it to others will help to reinforce your knowledge; if you are having difficulty with the material, being able to discuss it with your peers and instructor will help you learn.

Although some workshop material may not be what is being covered in class at that time, all the information needed to answer each assignment is contained within the workshop info sheet for each assignment. Use your Tophat textbook and the internet as additional resources.

Every week EACH person must have a copy of the workshop info sheet from Brightspace and attend your recitation section to work on solving the problems with the other members in your group. When your group has completed the workshop assignment during class one student will submit the assignment that includes your written work and the signature page for the entire group to your recitation instructor at the end of the session. Please communicate with your instructor about late submissions.

Review the workshop videos posted on both TopHat.com and your recitation course BS page prior to attending workshops so that you will have an idea as to how to solve the problems each week. A video link is also in the workshop info sheet posted on your recitation Brightspace page.

<u>The grading of workshops will adhere strictly to the following guidelines:</u>

1. There are 11 scheduled recitation sessions for CHEM100. See the course schedule above and the schedule provided to you by your recitation instructor for when you are to attend recitation sessions.
2. You will complete 2 assignments for each session for a total of 10pts per session.
    a. You will complete assignments called ***Workshops*** in a group **DURING** your scheduled sessions.
        - Each Workshop assignment is worth 5pts.
    b. You will complete an ***individual*** assignment where you use AI to help you prepare for your upcoming workshop session. Instructions on how to complete the AI Assignment will be provided on the main course Brightspace page AND your recitation Brightspace page at the beginning of the semester.
        - Each AI assignment is worth 5pts.
3. Workshop assignments must be solved in groups of 3-4 students. Your instructor will place you in your groups prior to the first recitation session.
4. Only one submission of the workshop assignment per group is required for each workshop ***submitted to your instructor*** at the end of each session directly in the format requested by your instructor.
5. **No workshop assignment points AT ALL will be awarded to anyone that does not sign the workshop cover sheet.**
    a. First and last names of group members, AND your signatures must be included on all workshop cover pages.
6. Students **must be *PHYSICALLY* present** in recitation to receive credit for the workshop assignment.
7. Your AI assignment ***must*** **be submitted** on the same day ***PRIOR*** to your recitation session on your recitation course Brightspace page for grading. Your instructor has the freedom to accept it late or not. Speak with your instructor for more information.
8. Students who arrive more than 15 minutes late to their recitation section ***may not*** be permitted to attend your session and/or work with your group to complete a workshop for grading although you may submit your AI assignment PRIOR to class for grading even if you are late to or miss your recitation class. Check with your instructor for their lateness policy.

9. Your one (1) lowest workshop AND one (1) lowest AI assignment grade will be dropped (see #2 above for description of workshop grade). If you miss a session and are unable to make up the workshop assignment during another session, it will count as one of the dropped grades.
10. ***If you must miss your scheduled recitation session, you may make it up by attending any of the other 5 sessions during the week either before or after your scheduled section. BE SURE TO INFORM YOUR RECITATION INSTRUCTOR BY SENDING AN EMAIL THAT YOU WILL BE MISSING YOUR SESSION.***
    a. ***ALSO EMAIL the instructor for the session you will be attending know who your instructor is so that they can send your scores to your instructor.***
    b. ***You are responsible for checking the course schedule to see if the same workshop is being covered on the day you wish to make up your work AND for making sure your make-up grade has been sent to your instructor.***
11. Please feel free to contact your recitation instructor if you have any other questions.

List of Recitations and Instructors. All sections meet in Rm Hunter North-C109

NAME	EMAIL	RECITATION SECTION DAYS AND TIMES
Andrew Szafran	as6577@hunter.cuny.edu	**Tuesdays** 10:30-11:20am (1R01) 11:30am-12:20pm (1R02)
Nestor Paulino	nestor.paulino26@myhunter.cuny.edu	**Wednesdays** 4-4:50pm (1R03) 5-5:50pm (1R04)
Maddison Hughes	madhugheschem@gmail.com	**Fridays** 10:30-11:20am (1R05/X01R) 11:30am-12:20pm (1R06)