General Chemistry10200-01: Summer 2022
Hunter college, Department of Chemistry, CUNY



Lecture: Mon-Thu 8.00 am – 10:05am
Recitation CHEM10200-1R01: Mon & Wed10:15-11:25
Recitation CHEM10200-1R02: Tue & Thurs 10:15-11:25

Instructor: Olga Lavinda, Ph.D
Email: olga.lavinda@baruch.cuny.edu **or, via BB**
Office Hours (Zoom or in person room NB 1323/1319 by appointment, i.e., you must let me know if you will be coming to an office hour in person or online that day): Tue & Thurs 11:30a.m. – 12:30p.m.
Lecture Class Room: North Building 1036
Recitation Class Room: North Building C114

Goal of the course: This is the first semester of a 2-semester general chemistry sequence that begins to prepare you for a science-based career. **Summer General Chemistry I** is a demanding course and while its primary objective is to introduce you to the fundamental principles that underlie the chemical sciences, to achieve success in this course you will need to organize large quantities of information in coherent ways so that you are able to recall and apply your knowledge. Organization of your time will be essential!

You should plan to spend ***at least* 20 hours per week** doing practice questions and online homework, reviewing the material, engaging with your classmates and learning the material. It is your responsibility to prepare yourself for every topic before you come to class. You must keep up with the material – it is unlikely that you will be able to catch up if you fall behind. We are here to support you in your learning!

This semester general chemistry is using a in person classroom model of instruction. In this model you will come to lecture, then complete online homework at home and then come to class to complete workshop assignments (during your recitation section) and participate in peer-learning activities using an iClicker/Reef. To join use this link: join.iClicker.com and code **MUSK**

You are not required to purchase a textbook. There is an e-book as part of your Achieve Homework (see below) but you should feel free to use ANY General Chemistry textbook. We will not be working through a textbook in a chapter-by-chapter fashion; rather we will cover 18 chemistry topics and use the textbook as a reference.

Our Achieve site (see below) will give you an access to an e-textbook. If you feel the need to buy a recommended textbook *Chemistry, 9th Ed., Zumdahl and Zumdahl* is a good choice. *A used text from Amazon or eBay is perfectly fine!*

Homework:

For homework, we will be using the online platform, called Achieve from Macmillan Learning. Here is the invitation link for my course.
https://achieve.macmillanlearning.com/courses/5sb73n

Lecture Topics, schedules, Grading points and Grading policy

Topics	Lecture	Date	Days	Recitation	HW	Class Exam	Final exam	Week
T1	Intro + T1	5/30/23	Tuesday					Week 1
T2	T1 + T2	5/31/23	Wednesday	IR01, Rec 1	T1			Week 1
T3	T3	6/1/23	Thursday	IR02, Rec-1	T2	Exam 1 topics		Week 1
T4	T4	6/5/23	Monday	IR01, Rec 2	T3			Week 2
T5	T4 + T5	6/6/23	Tuesday	IR02, Rec-2	T4			Week 2
T6	T5 +T6	6/7/23	Wednesday	IR01, Rec 3	T5			Week 2
T7	T 6 + T 7	6/8/23	Thursday	IR02, Rec-3	T6			Week 2
T8	T 7 + T8	6/12/23	Monday	IR01, Rec-4	T7			Week 3
T9	T8 +T9	6/13/23	Tuesday	IR02, Rec-4	T8			Week 3
T10	T9 + T10	6/14/23	Wednesday	IR01, Rec-5	T9			Week 3
T11	T11	6/15/23	Thursday	IR02, Rec-5	T10	Exam 2 topics	Final Exam	Week 3
	No class	6/19/23	College Closed	No recitation	T11			Week 4
T12	T11 + T12	6/20/23	Tuesday	IR02, Rec-6	T12			Week 4
T13	T12 +T13	6/21/23	Wednesday	IR01, Rec-6	T13			Week 4
	EXAM-1, T1- T9	6/22/23	Thursday	No recitation				Week 4
T14	T 13 + T14	6/26/23	Monday	IR01, Rec-7	T14			Week 5
T15	T 14 + T 15	6/27/23	Tuesday	IR02, Rec-7	T15			Week 5
T16	T15 + T16	6/28/23	Monday Schedule	IR01, Rec-8	T16			Week 5
T17	T 16 + T17	6/29/23	Thursday	IR02, Rec-8 IR02, Rec-9	T17			Week 5
T18	T 17 + T18	7/3/23	Monday	IR01, Rec-9	T18			Week 6
		7/4/23	Tuesday College Closed	No recitation				Week 6
	Lecture or review	7/5/22	Wednesday					Week 6
		7/6/22	Thursday			EXAM-2, T10-T18		Week 6
	Lecture or review	7/10/22	Monday					Week 7
	Lecture or review	7/11/22	Tuesday					Week 7
		7/12/22	Wednesday				Final Exam	

Topics	Recitation, Topics Covered & Corresponding Workshop Number	Rec. points	HW points	Reef/ iClicker+Attendance	lecture exams	Online Exam Points	Final Exam points
T1			15	11		200	Final exam 400
T2	IR01, Rec 1, T 1 + T2, W1	11	15	11			
T3	IR02, Rec-1, T1 + T2, W1	11	15	11			
T4	IR01, Rec 2, T 3 + T4, W2	11	15	11	EXAM 1		
T5	IR02, Rec-2, T3 + T4, W2	11	15	11			
T6	IR01, Rec 3, T5 + T6, W3	11	15	11			
T7	IR02, Rec-3, T5 +T6, W3	11	15	11			
T8	IR01, Rec-4, T7 + T8, W4	11	15	11			
T9	IR02, Rec-4, T7 + T8, W4	11	15	11			
T10	IR01, Rec-5, T10 + T11, W5	11	15	11		200	
T11	IR02, Rec-5, T10 + T11, W5	11	15	11			
T12	IR01, Rec-6, T12 + T13, W6	11	15	11			
T13	IR02, Rec-6, T12 + T13, W6	11	15	11			
T14	IR01, Rec-7, T14, W7	11	15	11	EXAM 2		
T15	IR02, Rec-7, T14, W7	11	15	11			
T16	IR01, Rec-8, T15, W8	11	15	11			
T17	IR02, Rec-8, T15, W8	11	15	11			
	IR02, Rec-9, T16 + T17, W9	11		11			
T18	IR01, Rec-9, T14, W9, W9	11	15	11			
Total points		99	270	198		400 points	400

SUM Totals	1350* Points

*The actual total is 1367 – 1350 = 17 pts are extra credit!!

Every component of this course earns you points towards your final grade, but to earn your points you must complete each component by its due date.

To earn full credit in this course you must accumulate 1200 points. 400 points come from your TOPIC's grades and 800 points come from your EXAM's grades.

The total number of points you earn will be normalized to a score out of 100.00 and then assigned a latter grade according to the table shown to the right. Letter grades will be determined based on a score to 2 decimal places. There will be no rounding of scores to determine letter grades.

Letter Grade	Course Requirement
A+	97.50
A	92.50
A-	90.00
B+	87.50
B	82.50
B-	80.00
C+	77.50
C	70.00
D	60.00
F	<60

Exams: There will be **two equally weighted** in-class exams (200 points each for a total of 400 points) given during the course of the semester. There will also be a Comprehensive Final Exam (400 points). If your final exam grade is higher than your lowest in-class exam grade your final grade will count for 600 points and your lowest in-class exam grade will be dropped.

For your online exams you will be required to have a pencil, paper and a calculator. All other materials (e.g. periodic table and/or other necessary information such as a formula sheet (Chem 1 Exam Appendix)) will be provided for you so you can print them. Exams must be taken during the designated class period. *NO MAKE-UP EXAMS will be given*. If you miss one exam you will earn a grade of zero for that exam. This grade will then be dropped as your lowest in-class exam grade and your final exam grade will automatically be counted for 600 points. If you miss more than one in-class exam you will receive a grade of ZERO for the second missed exam.

Exams schedule:

- EXAM 1: **June 22nd**
  Your score on this exam determines whether or not you have gained the knowledge required to continue in the course. If you do very poorly in this Exam you will need to make a drastic change to your study habits!
- EXAM 2: **July 6th**
  This exam is more difficult than exam 1. If you failed exam 1 and you also fail this exam you should definitely withdraw from the course.
- FINAL EXAM: **July 12th (this is a cumulative exam)**

Course Outline and Pacing Guide: This semester we will cover the following 18 topics:

1. Matter, Models and Math	10. Molecular Geometry
2. Atoms and Orbitals	11. Valence Bond Theory
3. Basic Bonding Principles	12. Molecular Orbital Theory
4. Introduction to Covalent Bonding	13. The Mole
5. The Chemical Equation	14. Stoichiometry Calculations
6. Energy Considerations	15. Empirical and Molecular Formula

7. Periodic Trends	16. Phase Change and IMF
8. Atomic Spectroscopy	17. Gases
9. The Electron	18. Applications of Stoichiometry

Required Recitation Workshops: In addition to attending the lecture, you are responsible for attending recitation assignment called a workshop.

Please note that

(1) The homework points for a Topic come from both the Achieve Skill practice assignments and the Achieve Synthesis assignments. The total points for a Topic's homework set are ***scaled*** *to the totals indicated in the Grading Scheme table.*

(2) The points that you accumulate by completing the Achieve extra credit assignments will only be applied to cover points lost in the Achieve Skill Practice and Synthesis parts of the homework ***for the current topic****.*

Accommodating Disabilities: Hunter College is committed to providing access to all programs and curricula to all students. Students with disabilities who may need classroom accommodations are encouraged to register with The Office of AccessABILITY.
http://www.hunter.cuny.edu/studentservices/access

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, see:

http://www.hunter.cuny.edu/studentaffairs/student-conduct/academic-integrity/cuny-policy-on-academic-integrity

Students who are caught cheating on an exam in this course will automatically obtain a grade of ZERO for that exam and will be reported for Academic Dishonesty. This grade of ZERO cannot be used as your lowest exam score to be dropped in the course.

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."

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.

Note from Instructor: Please make sure that any change of schedule, points or exams can be allowed by instructor, if needed.