Department of Chemistry and Biochemistry  
Queens College CUNYChemistry 101.3  
(1173), Section 02 Spring 2017

**Class Hours:** Lecture/Recitation:  M,W 3:10 - 4:25 pm  
**Room:**  Remsen 100  
**Instructor:** Dr. Sheila Sanders  
**Email:** ssanders@qc.cuny.edu 

**Office Hours:** Tuesdays & Thursdays 2-3 pm  
**Office:**  RE 206 D  


**Tentative Lecture Schedule:**

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<th>Date</th>
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| 1/30, 2/1  | Syllabus Distribution  
Chapter 1: Sections 1.1 - 1.4 Matter and Measurements               | Continuation of Chapter 1: Sections 1.5 - 1.12 Matter and Measurements  |
| 2/6, 2/8   | Chapter 2: Sections 2.1 - 2.2 Atoms and the Periodic Table             | Continuation of Chapter 2: Sections 2.3 - 2.9 Matter and Measurements   |
| 2/13, 2/15 | Lincoln’s Bday, College Closed                                         | Chapter 3: Sections 3.1 - 3.11 Ionic Compounds                          |
| 2/20, 2/22 | President’s Day, College Closed                                        | Continuation of Chapter 3: Sections 3.1 - 3.11 Ionic Compounds         |
| 2/27, 3/1  | Chapter 4: Sections 4.5 - 4.11 Molecular Compounds                    | Quiz #1                                                                 |
| 3/6, 3/8   | Review for Exam #1                                                    | Exam 1: Chapters 1,2 & 3                                               |
| 3/13, 3/15 | Continuation of Chapter 4: Sections 4.5 - 4.11 Molecular Compounds    | Chapter 5: Sections 5.1 - 5.3 Classification & Balancing of Chem. Rxns  |
| 3/20, 3/22 | Continuation of Chapter 5: Sections 5.4 - 5.7 Classification & Balancing of Chem. Rxns | Quiz #2                                                                 |
| 3/27, 3/29 | Review for Exam #2                                                    | Exam 2: Chapters 4 & 5                                                 |
| 4/3, 4/5   | Chapter 6: Sections 6.1 - 6.5 Chemical Rxns: Moles & Mass Relations   | Continuation of Chapter 6: Sections 6.1 - 6.5 Chemical Rxns: Moles & Mass Relations |
| 4/10, 4/12 | Spring Recess, No Class                                               | Spring Recess, No Class                                                |
| 4/17, 4/19 | Spring Recess, No Class                                               | Chapter 7: Sections 7.1 - 7.4 Chemical Rxns: Energy, Rates & Equilibrium |
| 4/24, 4/26 | Continuation of Chapter 7: Sections 7.1 - 7.4 Chemical Rxns: Energy, Rates & Equilibrium | Chapter 8: Sections 8.1 - 8.5 Gases, Liquids & Solids                   |
| 5/1, 5/3   | Review for Exam #3                                                    | Exam 3: Chapters 6,7 & 8                                               |
| 5/8, 5/10  | Chapter 9: Sections 9.8 - 9.11 Solutions                               | Chapter 10: Sections 10.1 - 10.9                                       |
| 5/15, 5/17 | Review for Final Exam                                                 | Quiz #3                                                                 |
| 5/22-26    | **ACS Final Exam, Chapters 1-10**                                    |                                                                         |
TAKING OUT CELL PHONES IN CLASS IS STRICTLY FORBIDDEN

- Grading. Your final score is based on the following calculation:

  ALEKS Online Homework: 30%; Recitation Quizzes: 10%; Midterm exams: 35%; Final exam: 25%.

  Please note: A final grade of “C” or better is required to continue on to Chem 102.

- Homework assignments must be completed by the due date online using the ALEKS Online Homework Program.

  Three quizzes will be administered throughout the semester. There will be no make-ups for missed quizzes.

  No makeup is given for missed exams. If you miss one exam, your final exam score will be based on two exams.

  Note: Bring a scientific calculator and the textbook to all classes and exams.

GENERAL

Chemistry 101.3 is a one semester, basic chemistry course roughly equivalent in caliber to the Regents Chemistry course taught in high schools within New York State. The course serves as a foundation for students who will go on to take Organic (Chem 102) and Biochemistry (Chem 103). A grade of C or higher is required to register for these courses. The course meets for 3 credit hours and includes both the recitation and lecture. The laboratory course, Chem 101.1 is a separate co-requisite for Chem 101.3 and is administered and graded separately.

In chemistry 101.3, the student will develop an understanding of basic atomic structure, including the rationale for the formation of ions and molecules. Students will learn basic skills involved in making measurements, understand the scientific method, stoichiometry, solution chemistry, equilibrium, and acid-base chemistry. Students will master gas laws and develop and the energetics of chemical reactions.

LECTURE

Students are expected to attend all lectures. Prior to each lecture, the students are expected to read the material in the textbook and be familiar with the concepts in the readings. The purpose of the lecture is to summarize the material, highlight important concepts, and provide illustrative examples of these concepts including solving typical problems. The attached lecture schedule is tentative and any variations which may arise will be addressed in class during lecture and via Blackboard postings.

Problem solving is a critical aspect of this course. By working to solve problems, students will come to better understand and master the various concepts. Homework assignments on the ALEKS online homework system are designed to provide instructional support of the course material but are also a significant (30%) component of the final grade. I encourage students to work in groups to solve problems; however, you must do the final entry to the homework system yourself.

RECITATION

The recitation is designed as a problem solving session. There will be three quizzes administered during the recitation so you must arrive on time or you will have less time for the quiz. The best two of the three quizzes will be used to determine your quiz average and will be used to provide 10% of your course grade. Students are expected to participate in recitation by coming prepared to solve problems and/or ask questions regarding the solutions to problems indicating that they have arrived at a partial solution prior to recitation.

Three midterm exams will be administered during recitation. Each student must bring a #2 pencil, pen, photo ID, and a scientific calculator to the exams. Each exam will start at the beginning of class so you must arrive on time or you will have less time for the exam. The exam average will determine 35% of your course grade.

CLASS POLICIES

Attendance: You are required to attend all exams, lectures, and recitations and to arrive promptly at the start time.

NO MAKE-UP QUIZZES OR EXAMINATIONS will be provided. It is your responsibility to contact the lecturer BEFORE the meeting if you cannot be present for an exam or quiz. If using email, notification a MINIMUM of 3 hours prior to the meeting is required. WRITTEN (NOT E-MAIL!) documentation (i.e. Doctor’s note) is then required at the next class meeting to avoid a grade or ZERO (0).

Note also that all on-line homework assignments will have a deadline date.

Academic Dishonesty: Academic dishonesty is one of the most serious offenses within the academic community. Acts of academic dishonesty include, but are not limited to, plagiarism and/or cheating on exams and papers, sabotage of research materials, the purchase or sale of academic papers, and falsification of records. Any student who engages in an
activity that is academically dishonest is subject to disciplinary charges, as is any student who knowingly aids another who engages in them. The City University Policy on Academic Dishonesty was adopted by CUNY’s Board of Trustees in June 2004; it includes definitions and examples of academic dishonesty, methods for promoting academic integrity, and procedures for the imposition of sanctions for various violations of this policy, including failing grades, suspension, and expulsion.

Note: During quizzes and exams, ONLY standalone scientific or four function calculators will be allowed. No other electronic devices (cell phones, tablet computers, I-pods, etc.) will be allowed even if they contain apps which serve as calculators. The ability to access other information via these devices makes the reason for this regulation obvious. Calculators may not be borrowed from other students once a test is in progress.

FAQ

1. How do I prepare for each Chem 101 lecture/recitation class?
   - Print out the Power Point slides (posted on CUNY Blackboard) prior to each class.
   - Bring the text book and a scientific calculator to each class.
   - Read the text book chapter to be covered during lecture prior to class.
   - Complete the ALEKS Online homework objectives by the due date. For additional practice problems, try the recommended text book problems for each chapter. Note the problems that you had trouble with and/ or would like to focus on during recitation.

2. How do I study for Chem 101?
   - Learn how to use a scientific calculator. Practice basic mathematical skills involving decimals, fractions, exponents, and percentages.
   - Read the textbook before attending the lecture.
   - Make short summary notes or an outline for each chapter. Allocate time to reread old chapter summaries even as we progress to newer chapters. Constant repetition is necessary to remember Chemistry!
   - Practice assigned problems first and practice more from the book if possible. Look into the solution manual or get help only if you cannot solve on your own after several attempts.

3. How can I contact you if I can't come during office hours?
   You can send me email. I will try to answer your question ASAP, or suggest some alternate time to meet you. If you did not get email response within one business day, ask me in person before or after the scheduled class.

4. I am failing in this course in spite of studying. Can you help me?
   If you wish to discuss your performance in this course, you must bring with you all your handwritten notes, solutions to assigned problems, and other evidence to show that you studied hard for the course. After analyzing your methods of studying, I can suggest improvements. I cannot help those who do not have the time to complete these minimum required tasks in this course.

5. Do you curve exam/quiz scores?
   NO

6. Is the class average maintained "C+"?
   NO
   Generally, the 'A' range is 90+, the 'B' range is 80+, the 'C' range is 70+, & 'D' is 60+. In other words, a score of 90 and above guarantees at least an 'A-' and so on. Therefore, you need to concentrate only on your raw overall score to improve your grade.

7. Can I do a term paper or other additional work to improve my grade?
   NO.
• 8. I am absent for a long time due to some medical/family/emergency/other reason. Can I still pass the class? If you miss more than one exam, it will be very difficult. Talk to the Registrar's office ASAP and take proper administrative action to protect your interests.