TEXT:  General, Organic and Biological Chemistry: Structures of Life
       STUDY GUIDE and SELECTED SOLUTIONS MANUAL are available

PUBLISHERS: Pearson

Calculators will be needed during lectures and for your homework and exams. Cell phone calculators will NOT be permitted for use during exams.

WEEKS (approximate)   TOPIC                           READING
1st and 2nd            Prologue and Measurements        Chapter 1
3rd and 4th            Energy and Matter                Chapter 2
5th and 6th            Atoms and Elements              Chapter 3
Week 7                 Exam I                          
8th and 9th            Compounds and Their Bonds        Chapter 5
9th and 10th           Chemical Reactions and Quantities    Chapter 6
11th                   Gases                           Chapter 7
Week 12                Exam II                         
13th and 13th          Solutions                       Chapter 8
13th and 14th          Chemical Equilibrium            Chapter 9
14th                   Acids and Bases                Chapter 10
15th                   Nuclear Chemistry              Chapter 4
Week 15                Exam III                       
Finals Week            Comprehensive Final-date to be determined

Course Description: Modern concepts of the atom and chemical bonding, chemical calculations, states of matter, chemistry of water, purification of water, types of solutions, acids and bases, nuclear chemistry, and radioactivity. The concepts necessary for an understanding of our technological society are developed.
Objectives: The students will solve problems and analyze data that require knowledge of the General Chemistry and Inorganic Chemistry using skills developed throughout the semester in:

- Developing capabilities to solve problems by combining several concepts in chemistry
- Developing techniques to think critically about a problem, devise a strategy for solving it, and assess whether the results make sense.
- Relating chemistry to all areas of science and unifying the diverse topics of chemistry.

This course is a 3-credit General Education course with the requirement designation: “Required Core – Life and Physical Sciences”. Details of the General Education learning objectives for CHM 110/111 are described in http://www.chem.csi.cuny.edu/GenEd-LO_CHM110-111.pdf.

COURSE POLICIES:

Grading:
- Homework 10%
- Semester Exams 54%
- Final Exam 30%
- Attendance, Class Participation, Attentiveness 6%

Homework: Homework will be assigned throughout the semester. Keep in mind the following:

1. It is highly recommended that you do:
   a. Questions and problems in the middle and end of chapter
   b. Questions in Study Guide
2. Assignment for each chapter
   a. Numerical answers for red problems are at the back of the text
   b. Odd number problems have solutions in the Study Guide
3. Show all work set-ups completely (but you may do math with calculator). Include all units.
4. Homework will not be returned. Keep a copy if you would like to have it.

Neatness: If the work is not neat, clear and easily readable, it will not be graded.

Exams: Makeup exams will NOT be given. Exams will emphasize what is covered in class and information from pervious chapters that pertain to the current topics will be applicable. There will be a comprehensive final given during final exam week. No one is allowed to leave the exam room until he or she is done with the exam. Latecomers to an exam may not be able to take the test if anyone has left the room after the test. Use of cell phones is not allowed during exams. Exams will include a multiple choice section and a written/calculation section. Please bring a scantron on the days of the exams.

Attendance: Attendance is mandatory. If you miss six or more classes without an excuse you will FAIL. If you miss a lecture you need to get the notes and help from a classmate.

General: Cheating, copying or plagiarism will result in a failing grade (see Academic Integrity below).

BEHAVIOR: Since every student is entitled to full participation in class without interruption, all students are expected to be in class and prepared to begin on time. All pagers, beepers and
wireless phones or other devices which generate sound must be **turned off** when you enter the classroom. Disruption of class, whether by latecomers, noisy devices or inconsiderate behavior, will NOT be tolerated. Repeated violations will be penalized and may result in expulsion from class. (Taken from Eastfield College, Dallas Texas, Social Science Division document.)

**ACADEMIC INTEGRITY:** Integrity is fundamental to the academic enterprise. It is violated by such acts as borrowing or purchasing term papers, essays, reports, and other written assignments; using concealed notes or crib sheets during examinations; copying the work of others and submitting it as one’s own; and misappropriating the knowledge of others. The sources from which one derives one’s idea, statements, terms, and data must be fully and specifically acknowledged in the appropriate form; failure to do so, intentionally or unintentionally, constitutes plagiarism. Violations of academic integrity may result in failure in a course and in disciplinary actions with penalties such as suspension or dismissal from the college. (Taken from the CSI Undergraduate Catalogue.)

"According to CSI’s Fall 2018 Academic Calendar, the last day to withdraw with the grade of "W" without permission of an instructor or Chairperson is November 6, 2018. From November 7, 2018 to December 5, 2018, withdrawal from a chemistry course is possible, with the permission given under the discretion of the instructor and the Chairperson. The Chemistry Department policy does not permit the withdrawal from a chemistry course after December 5, 2018."

**Who Should Be Taking Chemistry 110 and When**

- Nursing Students in the BSN program ready to take Pharmacology 382 – chemistry 110 is a prerequisite for this course and therefore is most useful when taken shortly before taking this course.
- This course fulfills a science requirement for liberal arts students. However, it is advised that liberal arts/business majors etc. take Chemistry 106/107 - Chemistry For Today.
- This course is **not a prerequisite** for any student in any program except for the BSN students who are ready to take Pharmacology 382.

**Tips for Surviving Chemistry 110**

- Do **some** chemistry daily
- Read textbook, **work examples and practice exercises**, and do homework as the material is taught (**do not wait until a quiz or exam to catch up**)
- Rework notes after class
- **Review last class before the next class** – even for a minimum of 10 minutes
- **Self correct** all homework assignments before submitting – **no errors, no blanks**. Print all homework neatly, showing all work (not just answers). Show math set-ups with the unknown isolated but then use your calculator to give final answer. (You have the worked out solutions for all assignments – in the Study Guide and Solutions Manual.)
- Free tutoring is offered daily including weekends. Tutoring is being done in 11-117.
- **Extra “help”** during office hours or before class. On piece of paper have reference problems/questions written down and your beginning work in trying to answer the questions.