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Chemistry Syllabi Spring 2020

Chemistry Syllabi 2020

2020

160-01 General Chemistry I

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Instructor: Dr. Mary W. Stroud

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Office hours: **Monday: 1:00p to 1:45 p; Tuesday/Wednesday/Friday: 11:30 a- 12:20p and by appointment**

Note: Some weeks, office hours may need to be rescheduled due to meetings. Please pay attention to email notification for the change.

Class meetings: Monday/ Wednesday/ Friday: 9.00 – 9:50 a Lindner Hall 101

Pre-requisites: High-school courses or the equivalent in algebra (1 year), chemistry (1 year), and physics (1 year) are a helpful background.

Course description: This is the first semester of a science-major chemistry sequence. Fundamental principles of general chemistry are discussed, including: measurements, atomic theory, stoichiometry, reactions in aqueous solution, the periodic table, chemical bonding and molecular geometry, thermochemistry, and gases.

Text : Chemistry, 13e., Raymond Chang and Jason Overby (McGraw Hill)

Tentative Schedule

Date	Topics	Remarks
Jan 13- Jan 30	-Chemistry: The Study of Change (Ch. 1) -Atoms, Molecules, and Ions (Ch.2 skip pp. 64-68) - Nuclear Chemistry (Ch. 19 sections 1, 5, & 6 only)	No Class Jan 19 (MLK Holiday)
M Feb 3	TEST # 1	
Feb 5- Feb 14	- Mass Relationships in Chemical Reactions (Ch. 3)	
M Feb 17	TEST # 2	
Feb 19- Mar 4	- Reactions in Aqueous Solution (Ch.4 and section 18.1 in Ch. 18) -Thermochemistry (Ch.6 skip section 3)	
F Mar 6	TEST # 3	
Mar 9-13	Spring Break- No Class	
Mar 16-30	-Quantum Theory and the Electronic Structure of Atoms (Ch.7) -Periodic Relationships Among the Elements (Ch.8 skip section 6)	
W Apr 1	TEST # 4	
Apr 3 – 20	-Chem. Bonding I: Basic Concepts(Ch.9) -Chem. Bonding II: Molecular Geometry & Hybridization of Atomic Orbitals (Ch. 10 sections 1-5 only)	No Class Apr 9-13 (Easter Break)
W Apr 22	TEST # 5	
Apr 24- May1	-Gases (Ch.5)	Last day of class May 1
W May 6	FINAL EXAM 8.00 a.m. – 9.50 a.m.	Exam Week

NOTE: This syllabus is subject to change depending on class progress and extenuating circumstances. Any changes to this syllabus will be announced to the class in as timely a manner as possible.

Please bring calculator to class

Grading :

Assignments, Homework, and Quizzes: 15 %

Tests: (5 tests x 13%) 65 %

Final exam: 20 %

Academic Honesty: Cheating on any test or examination will result in a grade of "F" for the course. The student may appeal according to normal procedures stated in the University Catalog.

Grading scale: A 94-100 A- 91-93, B+ 88-90 B 84-87 B- 80-83
C+ 77-79 C 73-76 C- 70-72 D+ 65-69 D 60-64 F 59 and below
(Upon review at the end of the semester, this scale may be adjusted downward.)

It should be noted that according to the Xavier University Catalog, a grade of "A" is earned for exceptional performance. This is also the agreed grading policy of the faculty in the Chemistry Department. The Chemistry Department Grading Policies should be viewed by all students and can be found on the Departmental Web site at <https://www.Xavier.edu/chemistry-department/departmental-policies/department-grading-policy>

Attendance: Regular attendance in this lecture class is strongly encouraged. Students auditing the class are expected to attend regularly. During class common courtesy to the instructor and fellow students is expected
Note: The Director of the Student Academic Support Service periodically requests reports on student attendance.

Quizzes and Assignments (Collectively, quizzes and assignments contribute 15 % to the final grade):

Announced quizzes (four to six) will be given throughout the semester. These short quizzes (10 to 12 minutes) will be given at the beginning of the class period and will cover content discussed in the immediate sessions prior to the quiz. Students must be present to take the quizzes at the announced class times; missed quizzes can be made up only under acceptable extenuating circumstances. Missed, unexcused quizzes = 0 points.

In-Class, Quick Assignments may also be given, to immediately assess student understanding. Such assignments are generally unannounced, but may act as an easy means to accumulate participation credit.

Homework assignments (practice problem sets), as announced, must be completed using McGraw Hill Connect (or posted on CANVAS if so announced) following the posted due dates.

Tests: Five tests will be given. Tentative dates are Feb 3, Feb 17, Mar 6, Apr 1, and Apr 22. **Each test counts equally toward the final grade with a total contribution of 65 %.**

Student Learning Outcomes (SLO's) for each test are posted on Canvas. Students are encouraged to use them as a check list before each test to make sure they have covered all the topics that will be in the test.

Test/Exam Absences: Students are responsible for taking tests at the scheduled times. Make-up tests will only be given with proof of illness or proof of some other conflicting event (note from an appropriate university counselor). i.e. In case of sickness, bring a notification or letter from doctor and contact the instructor as soon as possible to schedule for test/exam. In case of necessary business e.g. sport meet, family issue, contact the instructor in advance with a letter from your academic advisor or sport director/coach to schedule for test/exam. Missed test/exam cannot be made up without documented reasonable excuses.

Electronic devices (phone, computer, etc.) and graphic/programmable calculator are not allowed during quizzes/exams.

Final Exam: Wednesday, May 6, 8:00 am -9:50 am. The final exam is **CUMULATIVE! The final exam counts 20% toward the overall grade.**

Accommodations- It is the responsibility of the student to inform the instructor at the beginning of the semester of any individual conditions that may require special attention or accommodations. Appropriate consideration will be given in these situations.

Assignment 1 -Reading the Syllabus (3pts)- After reviewing this entire syllabus, send a written response under the Assignment 1 tab in CANVAS, stating your name & the statement " I read my CHEM 160 Spring, 2020 syllabus."