

Fall 2018 - CHEM 210-0001 "General Chemistry I"
Co-requisite: CHEM 212 - General Chemistry Laboratory I

Instructor - Dr. Elizabeth R. Gaillard, LaT322, 753-6908, gaillard@niu.edu

Office Hours – Mon. and Wed. 10:00-10:50 am and Thurs. 1:00-1:50 pm or by appointment

Recitation TA – Michael Vega, mvegal@niu.edu **TA Office Hours** – TBA

Lecture and Recitation Schedule:

Section R001 Lecture MWF, 9:00 AM, FR 143	Recitation Monday, 10:00 AM FR 205
Section R002 Lecture MWF, 9:00 AM, FR 143	Recitation Monday, 11:00 AM FR 205
Section R003 Lecture MWF, 9:00 AM, FR 143	Recitation Monday, 1:00 PM FR 205
Section R004 Lecture MWF, 9:00 AM, FR 143	Recitation Monday, 2:00 PM FR 205

On-Line Course Information: Blackboard (<https://webcourses.niu.edu>)

Materials: “*General Chemistry-Atoms First*”, by McMurry and Fay, 2nd Edition (Pearson; 2014) and Pearson *MasteringChemistry* (on-line homework, assessment and study tools utilizing adaptive learning). MasteringChemistry includes an ebook and a Study Area with self quizzes, videos, activities, math resources etc. that you are strongly encouraged to use. An access code for MasteringChemistry is bundled with the textbook or you may purchase one on-line the first time that you open an assignment on Blackboard. **You must purchase the code labelled “Modified Mastering” in order for it to work with Blackboard.** The University bookstore also sells stand-alone MasteringChemistry access codes. The MasteringChemistry access code costs \$153.50 and is good for two semesters. You may sign up for a 14-day free trial of MasteringChemistry the first time that you access our course but be sure to use the same login credentials when you purchase the code after the free trial.

A solutions manual and study guide are available for purchase for the textbook at the Pearson website but they are not required. The Faraday library has many older chemistry textbooks and math tutorial books that you may find useful.

Tutors and Lab TA Office Hours: The Department of Chemistry and Biochemistry maintains a free Tutor Room for General Chemistry students. The Tutor Room is in **Faraday Hall 247** and the schedule will be posted online (<http://www.niu.edu/chembio/aboutus/helproom.shtml>) and outside the help room door. Most semesters it is staffed Monday through Thursday from 8:30 AM to 3:30 PM with a lunch break. On Fridays, the Tutor Room closes early. General Chemistry laboratory TA office hours are held in Faraday 246. Students are also encouraged to ask laboratory TAs for assistance in understanding the lecture material.

Paid Tutors - Names of tutors for hire are available from Linda Davis in Faraday 319 (Dept. office).

Exams and Grading

Recitation - The recitation grade (100 points possible) will be based on quiz and attendance scores. Four 20-point on-line quizzes will be administered during the semester (see schedule for dates, 80 points possible). On the quiz dates, the class will meet in the Montgomery Hall computer lab, room MO 444. Attendance will be credited at 2 points for each quiz free session (20 points possible).

Homework - The homework will be administered on-line using the MasteringChemistry system and will consist of ten 10-point assignments. Due dates will be announced in lecture.

There will be no make-up quizzes or homework.

Exams - Dates for three 100 point in-semester exams are indicated in the lecture schedule (see next page).

During the Final Exam period, there will be two exams: a third exam (100 points) and a comprehensive final exam (100 points). All exams will consist of 25 multiple-choice questions. The lowest exam grade will be dropped when calculating the final grade at the end of the semester. **There will be no make-up exams unless prior arrangements have been made with the instructor to take the exam before the scheduled date and time. Professor Gaillard reserves the right to refuse to make alternative arrangements. A missed exam will be scored as zero and will be dropped.** Your overall final class grade will be determined as follows:

Best three of four exams	300 points
Recitation	100 points
Homework	100 points
<u>Final Exam</u>	<u>100 points</u>
Total	600 points

Grading scale: The grades will be determined according to the percentage of points earned out of the total possible 600 points:

The grading scale will be 90% (540 points)+ = A, 80 – 89.9% (480 – 539 points) = B, 70 – 79.9% (420 – 479 points) = C, 60 – 69.9% (360 – 419 points) = D, <59.9% (359 points) = F. This scale *may* be revised downward but this is not guaranteed. **There will not be a curve.**

Additional Policies

Academic integrity - Good academic work must be based on honesty. Cheating and plagiarism are considered to be serious offenses. Students responsible for, or assisting others in, either cheating or plagiarism on an assignment, quiz, or examination may receive a grade of F for this course and may be suspended or dismissed from the university. NIU Policy on academic integrity can be found at the online tutorial <http://www.niu.edu/ai/students/>.

Accommodations for students with disabilities – If you need an accommodation for this class, please contact the Disability Resource Center as soon as possible. The DRC coordinates accommodations for students with disabilities. It is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 (V) or drc@niu.edu. You can access the Accessibility Portal here <http://www.niu.edu/accessibility/>.

Also, please contact me privately as soon as possible so we can discuss your accommodations. The sooner you let us know your needs, the sooner we can assist you in achieving your learning goals in this course.

Additional Information

CHEM 210 is a challenging course. There are many resources available to help you succeed – it is *your* responsibility to take advantage of them. Success will require diligent study habits, paying attention to announcements and attendance at all scheduled lectures and labs. As a general rule of thumb, you should be studying about 3 hours per week per credit hour so, for CHEM 210, that equals approximately 9 hours per week outside of the classroom. In addition to the departmental resources described above, the following university resources may be of benefit to you:

- ✳ NIU Academic Advising Center: <https://www.advisingcenter.niu.edu/advising/>
- ✳ NIU Tutoring Centers: <http://www.niu.edu/access/tutoringcenters/>
- ✳ One-on-one tutoring: <http://www.niu.edu/access/pal/>
- ✳ First and Second Year Experience: http://www.niu.edu/fsye/student_resources/fsyss/index.shtml

In the lecture hall and recitation classroom, common courtesy is expected. Don't engage in activities that interfere with my teaching or Michael's teaching or that interfere with your fellow students' learning. If you use a computer or tablet in class, use it only for class related activities. If you need to arrive late or leave early, please do so discretely. Anyone who violates these basic standards may be asked to leave the lecture hall or recitation classroom.

TENTATIVE LECTURE SCHEDULE

<u>Monday of WEEK</u>	<u>CHAPTER/TOPIC</u>	<u>Exam/Quiz</u>
1. Aug. 27	0: Chemical Tools: Experimentation and Measurement	
2. Sept. 3*	1: The Structure and Stability of Atoms	
3. Sept. 10	2: Periodicity and the Electronic Structure of Atoms	Quiz 1
4. Sept. 17	2 and 3: Atoms and Ionic Bonds	9/21 Exam 1
5. Sept. 24	3: Continued	
6. Oct. 1	4: Atoms and Covalent Bonds	
7. Oct. 8	4 and 5: Covalent Bonds and Molecular Structure	Quiz 2
8. Oct. 15	5: Covalent Bonds and Molecular Structure	10/19 Exam 2
9. Oct. 22	5 and 6: Chemical Arithmetic: Stoichiometry	
10. Oct. 29	6: Continued	
11. Nov. 5	7: Reactions in Aqueous Solutions	Quiz 3
12. Nov. 12	7: Continued	11/16 Exam 3
13. Nov. 19*	8: Thermochemistry: Chemical Energy	
14. Nov. 26	9: Gases: Their Properties and Behavior	
15. Dec. 3	9: Continued	Quiz 4
Final: Wed., Dec. 12	8 AM - 9:50AM	Exam 4 and FINAL

*Sept. 3 Labor Day (University closed); Nov. 21-Nov. 25 Thanksgiving Break (University closed)

