

General Chemistry I - Chemistry 1212 Spring 2009

Instructor: Dr. Carole Brown
208 Rogers Hall
cebrown@ngcsu.edu
864-1506

Office Hours: Monday through Friday at 10:00-11:00am and welcome by appointment

Lecture: 9:05am-10:00am MWF in 204 Rogers Hall
3 credit hours

Lab: Dependent on section registered for. *You must attend your scheduled day/time for both Lab and Lecture*

Prerequisites: A passing grade in 1211 lecture and lab.

Co-requisites: Chemistry 1212L Laboratory

Co-requisites Policy: Although 1212 and 1212L are separate courses with separate grades, you are required to be enrolled in both. These classes are meant to compliment each other and reinforce the ideas presented in both courses. Laboratory information will be included on exams and homework.

Textbooks and Required Materials:

Lecture: McMurry & Fay, *Chemistry*, Prentice Hall, 5th Ed.
Bundled with Mastering Chemistry and a partial Solutions Manual

Laboratory: Modular Laboratory Program in Chemistry, ed. H.A. Neidig
***Make sure you get the correct packet
Carbonless-copy producing notebook

General: Non-programmable, single-line or double-line display, calculator with scientific functions
(log, ln, 10^x, e^x, and EE or EXP)

Course Description and Objectives: The first course in a two-semester sequence covering the fundamental principles and applications of chemistry for science majors. Topics to be covered include composition of matter, dimensional analysis stoichiometry, periodic relations, and nomenclature. By the end of the semester, students will have learned and will be able to exhibit skill in the fundamental principles of chemistry these topics.

Lecture Attendance: REGULAR LECTURE ATTENDANCE IS ESSENTIAL TO YOUR SUCCESS IN THIS CLASS AND IS, THEREFORE, MANDATORY. In accordance with NGCSU policy, a student can be dropped for excessive absenteeism. If absent, you are responsible for determining what assignments, material, etc. you have missed.

If NGCSU officially cancels class due to inclement weather, any exam will be postponed until the next class meeting.

1212 Grading:

Exam 1	16%
Exam 2	16%
Exam 3	16%
Exam 4	16%
Homework Average	16%
Final Exam	20%

Note on Absences and Exam Policy: ANY UNEXCUSED ABSENCE FROM AN EXAM RESULTS IN A ZERO. FOR AN ABSENCE TO BE EXCUSED IT MUST BE DISCUSSED WITH ME IN PERSON AND APPROVED PRIOR TO THE ABSENCE. NO ADDITIONAL TIME WILL BE ALLOTTED TO THOSE WHO ARRIVE LATE TO ANY EXAM

Final Exam: The Final Exam will be comprehensive over both semesters and will consist of the American Chemical Society General Chemistry Standardized Exam. A study guide is available from ACS online store (<http://www4.uwm.edu/chemexams/guides/index.cfm>) and from the NGCSU Society of Chemistry Students.

Homework: Homework assignments can be found at MasteringChemistry.com. You must enroll as soon as possible using the course id MCBROWN79770. You will be given at least two (2) assignments per chapter - 2 or 3 assignments due per week. You will have a short period of time to complete these assignments, approximately 1 week. Late submissions will receive no credit.

Cheating and Plagiarism: Any attempt at cheating or plagiarism will not be tolerated and will result in being failed in the course, reported to the V.P. for Academic affairs, the Dean of Students and the Academic Integrity Council, which may ultimately result in suspension or expulsion. See the Academic Integrity section below.

Class Evaluations: Class evaluations at NGCSU are conducted on-line through Banner. Evaluation of the class is considered a component of the course and students will not be permitted to access their course grade until the evaluation has been completed. The evaluations will be accessible beginning one week prior to Final Exam week.

Disabilities: NGCSU is committed to equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the instructor and the office of Student Disability Resources. Please contact Ms. Elizabeth McIntosh, Coordinator, at 867-2782 in 122 Barnes Hall.

Early Intervention Program (EIP): As your teacher, I am committed to your academic success, not only in this class, but at this university. If I feel you would benefit from some of the special services available to students, I will make the appropriate referral. I will expect to comply with the referral and take advantage of the services offered.

Calculators: Calculators must be non-programmable and generally have a single-line display. The calculator must have scientific functions – such as log, ln, and EXP or EE. ALL OTHER TYPES OF CALCULATORS ARE PROHIBITED AND WILL BE CONFISCATED FOR THE DURATION OF THE TEST IF USED. There will be no passing or sharing of the calculators

Cell Phones: Use of your cell phone during lab, lecture, or exam is strictly prohibited. Cell phones are not valid calculators nor appropriate time pieces. Any important call to be received by a student during class must be cleared with me in **ADVANCE**. If I detect a cell phone in use in any way during the lecture or exam, I will issue (and record for my records) one verbal warning.

After that time, I will penalize your final grade in the class according to the following scheme: 1st infraction =warning; 2nd infraction = 10 %; 3rd infraction = 20 %; 4th infraction = 40 %, etc. Turn your cell phones off.

Academic Integrity: Students are encouraged to work together on homework and labs. I found working in small groups beneficial to increased comprehension of the material. THE NGCSU integrity code is: "On my honor, I will not lie, cheat, steal, plagiarize, evade the truth or tolerate those who do." **ANY VIOLATION OF ANY OF THESE RULES, LIKE CHEATING OR PLAGARIZISM, WILL RESULT IN BEING FAILED IN THE COURSE, REPORTED TO THE V.P. FOR ACADEMIC AFFAIRS, THE DEAN OF STUDENTS AND THE ACADEMIC INTEGRITY COUNCIL, WHICH MAY ULTIMATELY RESULT IN SUSPENSION OR EXPULSION.**

Tenative 1212 Lecture Schedule (NOTICE: subject to change)

Date	Topic	Reading Pages
1/7	Introduction and Chapter 10	353-398
1/9	Chapter 10 – Liquids, Solids, and Phase Changes	353-398
1/12	Chapter 10 – Liquids, Solids, and Phase Changes	353-398
1/14	Drop/Add Ends	
1/14	Chapter 10 – Liquids, Solids, and Phase Changes	353-398
1/16	Chapter 10 – Liquids, Solids, and Phase Changes	353-398
1/19	Labor Day Holiday- -No classes	
1/21	Chapter 11 – Solutions and Their Properties	399-437
1/23	Chapter 11 – Solutions and Their Properties	399-437
1/26	Chapter 11 – Solutions and Their Properties	399-437
1/28	Chapter 11 – Solutions and Their Properties	399-437
1/30	Chapter 11 – Solutions and Their Properties	399-437
2/2	Exam 1 (Chapters 10 & 11)	
2/4	Chapter 12 – Chemical Kinetics	439-496
2/6	Chapter 12 – Chemical Kinetics	439-496
2/9	Chapter 12 – Chemical Kinetics	439-496
2/11	Chapter 12 – Chemical Kinetics	439-496
2/13	Chapter 12 – Chemical Kinetics	439-496
2/16	Chapter 12 – Chemical Kinetics	439-496
2/18	Chapter 13 – Chemical Equilibrium	497-542
2/20	Chapter 13 – Chemical Equilibrium	497-542
2/23	Chapter 13 – Chemical Equilibrium	497-542
2/24	Last Day to Drop with a W	
2/25	Chapter 13 – Chemical Equilibrium	497-542
2/27	Exam 2 (Chapters 12 & 13)	
3/2	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/4	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/6	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/9	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/11	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/13	Chapter 14 – Aqueous Equilibrium: Acids and Bases	543-592
3/16-3/20	Spring Break- -No classes	
3/23	Chapter 15 – Applications of Aqueous Equilibrium	593-645
3/25	Chapter 15 – Applications of Aqueous Equilibrium	593-645
3/27	Chapter 15 – Applications of Aqueous Equilibrium	593-645
3/30	Chapter 15 – Applications of Aqueous Equilibrium	593-645
4/1	Chapter 15 – Applications of Aqueous Equilibrium	593-645
4/3	Exam 3 (Chapters 14 & 15)	
4/6	Chapter 16 – Thermodynamics: Entropy, Free Energy, and Equilibrium	647-686
4/8	Chapter 16 – Thermodynamics: Entropy, Free Energy, and Equilibrium	647-686
4/10	Chapter 16 – Thermodynamics: Entropy, Free Energy, and Equilibrium	647-686
4/13	Chapter 17 – Electrochemistry	687-735
4/15	Chapter 17 – Electrochemistry	687-735
4/17	Exam 4 (Chapters 16 & 17)	
4/20	Final Exam Question and Answer	
4/20	Last day of Class	
4/21	Academic Review Day	
4/24	Final Exam – 8:00-10:00am	