Chemistry 105 - Fundamental Chemistry
Spring Semester 2017 - Course Policies and Announcements

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CHEM 105. Fundamental Chemistry 5 cr. Prereq: MATH 90 OR PLACEMENT IN 100 OR ABOVE. Fundamental principles and theories of chemistry, including stoichiometry, atomic and molecular structure and bonding, nuclear chemistry, thermodynamics, descriptive chemistry of nonmetals and transition metals, chemical kinetics and equilibria, introduction to organic chemistry.

Our formal meetings will take place in two different settings. The **lecture** will serve to enliven, emphasize, and elaborate the topics set forth in the textbook. I may not cover every section of the book. You are responsible for **all** readings. This means that you must read and understand the textbook. If you do not understand something and I do not cover the material in class, you will need to make an effort to clarify this material. The **laboratory** section will be the "hands on" portion of the course where students will gain practical insight into the methods used by chemists when conducting experiments.

The textbook for this course is available at text rental. It is entitled "Chemistry: an atoms-focused approach" by Gilbert, Kirss, and Foster-First Edition. In addition, students are required to purchase a **Chemistry 105 Laboratory Packet** (It is a thick ream of paper with all the experiments for lab) which is available at the bookstore. As a science, chemistry is extremely math dependent. Chemists perform computations regularly. You will also be expected to master these calculations as they are presented. A **scientific calculator** is required for the course. It must incorporate functions which compute both base ten and natural logarithms (i.e., you should see 10^x, LOG, e^x, and ln buttons somewhere on the calculator). You will need to use this calculator in both the laboratory and the classroom so make sure you bring it with you to all class meetings and are able to operate it in an efficient manner. **A cellphone may not be used as a calculator.** Take the necessary precautions to prevent theft or other losses of this instrument. Please mark your materials with your name such that they may be returned to you if lost.

Attendance during scheduled exams and laboratories is required. Unexcused absences during these times are unacceptable. The dates for hour exams, midterm and final exams, and laboratory exercises are fixed and will not change. Hour exams will be administered on Fridays of the weeks indicated. Any conflict should be worked out by the student with the instructor at least <u>two days prior</u>. No make-up exams, quizzes, or laboratories will be given. Excused absences will be granted under certain conditions. If there is an unavoidable time conflict or emergency during a scheduled exam, contact the instructor as soon as possible. Students are reminded that they are to conduct themselves in accordance with the rules for conduct of the University of Wisconsin. Chapter UWS 14 of the Wisconsin Administrative Code, is to be followed by all students, staff, and faculty. This

document may be accessed via the Dean of Students Web site at:
http://www.uwsp.edu/dos/Pages/Academic-Concerns for Students.aspx.

Grading Policy: The standard College Board grading scale shall be used. There will be four hour exams, a **comprehensive** mid-term, and a **comprehensive** final exam. In addition, there will be topical quizzes. The final grade will be based upon the total points accumulated by each student divided by the total points possible. You should be able to tell how you are doing in the course by using the scale shown below. Each of the laboratory exercises will be graded and given a score out of ten points. A pre-lab quiz is required to be taken on D2L prior to attending the lab session. Each pre-lab quiz is worth five points. Attendance at lab is required. Students not attending a lab will receive a zero for the lab.

4 Hour Exams	400 Points (40 each)
~6 Topical Quizzes (any day)	150 Points
1 Mid term Exam	100 Points
1 Final Exam	150 Points
13 Lab Reports	10 Points each
14 Prelab Quizzes	5 Points each

College Board Grading Scale

A	93-100%	C+	77-79%
A-	90-92%	C	73-76%
B+	87-89%	C-	70-72%
B	83-86%	D+	67-69%
B-	80-82%	D	65-66%
		F	below 65%

Course Time Management: What you learn ultimately depends on you. This is a five credit class and consequently it should involve a **great proportion of your time**. Your grade in this class will greatly affect your GPA. There are additional materials which will help you to succeed in the class. Tutoring is available through the University. More information and registration is available at http://www.uwsp.edu/tlc/. See me as soon as you feel you are having difficulties. I am available for consultation during my office hours and by appointment. I am here to help you and guide you in your study of chemistry.

Desire2Learn (D2L): This semester I will be using D2L for class management. D2L is the University of Wisconsin System classroom management software and on-line learning environment (https://uwsp.courses.wisconsin.edu/). "Test Scores on the Web" will also be utilized for quiz results and is found via myPoint (https://mypoint.uwsp.edu/mypoint/default.aspx and select the academics tab).

In the event of a medical emergency call 9-1-1 or use Red Emergency Phone. Offer assistance if trained and willing to do so. Guide emergency responders to the victim. In the event of a tornado warning, proceed to the lowest level interior room without window exposure. See hallway maps for floor plans showing severe weather shelters on campus. Avoid wide-span structures (gyms, pools or large classrooms). In the event of a fire alarm, evacuate the building in a calm manner.

Active Shooter/Code React – Run/Escape, Hide, Fight – If trapped hide, lock doors, turn off lights, spread out and remain quiet. Call 9-1-1 when it is safe to do so. Follow the instructions of emergency responders. For more information see the UW-Stevens Point Emergency Procedures at www.uwsp.edu/rmgt/Pages/em/procedures with details on all emergency responses at UW-Stevens Point.

Chemistry 105 –Tentative Schedules

Week	Subject Matter	Text Chapters		Laboratory
1	Matter & Energy	1		Check-in Week
2	Atoms, Ions, and Molecules-Atomic Structure	2/3		Error Analysis and Measurements
3	Chemical Bonding	4	Exam 1	Techniques
4				Density
5	Bonding Theory and Geometry	5		Law of Definite Proportions
6				Water in a Hydrate
7	IMF's	6	Exam 2	Introduction to Spectroscopy
8				Iron by Spectrophotometry
		Spring Break		
9	Stoichiometry	7	Midterm Exam	Separation of a Mixture
10				Chemical Reactivity
11	Aqueous Solutions	8	Exam 3	Limiting Reagent
12				Vinegar Titration Part I
13	Thermochemistry	9		Vinegar Titration Part II
14			Exam 4	Thermochemistry
15				Lab Check-out
16			Final Exam	