

Chemistry 112-2011

MWF 8:00 - 8:50 AM

HIRC 3

William J. Vining

232 Physical Sciences Building

436-2698/ viningwj@oneonta.edu

PREREQUISITE

The prerequisite for General Chemistry II is General Chemistry I, Chem 111, with a grade of C- or better.

MATERIALS

- General Chemistry to Accompany the OWL: Download from Course Website
- Laboratory Experiments: Download from Course Website
- Laboratory Safety Goggles (bookstore)
- Dedicated Laboratory Notebook, any style but separate from lecture notebook
- Scientific Calculator
- OWL Electronic Homework System (provided by instructor)
- Course website: <http://employees.oneonta.edu/viningwj/Chem112/>

GRADING

The basis for course grades is determined by examinations, graded homework, and laboratory. Points for each are:

Three hour exams (100 points each):	300 points
Comprehensive final exam:	150 points
Homework	100 points
<u>Laboratory:</u>	<u>100 points</u>
Total Points:	650 points

Letter grade ranges on a percentage basis are:

A	90.0 – 100%	C-	67.0 – 69.9%
A-	87.0 – 89.9%	D+	64.0 – 66.9%
B+	84.0 – 86.9%	D	60.0 – 63.9%
B	80.0 – 83.9%	D-	57.0 – 59.9%
B-	77.0 – 79.9%	E	Below 57%
C+	74.0 – 76.9%		
C	70.0 – 73.9%		

If you miss an examination because of circumstances beyond your control, please inform the instructor immediately. A make-up examination will be scheduled for as soon as possible. The instructor must be notified before or during the examination time.

Topics

Chapter 10	Gases
Chapter 11	Intermolecular Forces and Liquids
Chapter 12	Solids
Chapter 13	Solutions and Other Mixtures
Chapter 14	Kinetics
Chapter 15	Equilibrium
Chapter 16	Acids and Bases
Chapter 17	Advanced Acid-Base Equilibria
Chapter 18	Solubility and Complexation Equilibria
Chapter 19	Entropy and Thermodynamic Control of Chemical Reactions
Chapter 20	Electrochemistry

ATTENDANCE

Attendance in lectures is required. There are 42 class meetings through the semester. Each student is given 10 free misses, for any reason. Each miss beyond those 10 will deduct 2 points (out of 650) from the final point total. Exceptions will possibly be made for extraordinary circumstances, following a written (on paper) request.

OWL HOMEWORK

Homework will use the OWL system served by the University of Massachusetts. The system is “mastery” based, meaning that you can work on an assignment as long as you want and try questions as many times as you want, until succeeding. There is no penalty for getting an answer wrong. There is only a penalty for not eventually getting it right.

The login address is: <http://owl.oit.umass.edu>

Choose General Chemistry/UMass Amherst

Your login is SUCO + your email up to the @ sign. So, mine is SUCOviningwj.

Your password is your student number.

Assignments will be made weekly and will be due at midnight on Sunday.

Department of Chemistry and Biochemistry

Policy on Course Attendance, Performance, Participation and Behavior

1. Students are expected to attend all scheduled course sessions and should be prepared by reading in advance any relevant material assigned or provided. Participation (defined by interacting with the instructor, working problems at the board, individually or in groups, using personal response “Clicker” systems and other mechanisms defined in the syllabus) is expected.
2. Students are reminded that instructors are not required to accept assignments submitted late, except in instances allowed according to College policies. College Policies as defined in the Student Code of Conduct apply to lecture, recitation and laboratory portions of all courses.

- Laboratories are an integral part of education in chemistry courses. As a result, participation in all laboratories scheduled for a course is expected. Unless alternate activities are scheduled, students can expect that their laboratory section will meet each week, and failure to attend laboratories may lead to failure in the course.
- The minimum acceptable grade for a chemistry course prerequisite is a C-. For example, a student with a D+ in General Chemistry I may not enroll in General Chemistry II. This standard applies to all Chemistry prerequisites for all Chemistry courses.
- The laboratory for a course must be passed**, normally by earning 60% of the available score or points for the laboratory, in order to pass the course. Exceptions may be noted in syllabus.
- Students are expected to bring to laboratory the laboratory manual (or printout of the experiment), a laboratory notebook (if required), a calculator, ruler or other materials as specified by the instructor or in the syllabus.
- Students are not allowed to work in the laboratory without direct faculty supervision.
- Unless announced in advance, **SAFETY GOGGLES (WHICH PROVIDE A COMPLETE SEAL AROUND THE EYES AND ARE EQUIPPED WITH INDIRECT VENTS) ARE REQUIRED TO BE WORN AT ALL TIMES IN THE LABORATORY. STUDENTS ARE REQUIRED TO PROVIDE THEIR OWN SAFETY GOGGLES.**
- Open-toed shoes (e.g. sandals, "Birkenstocks", flip-flops, etc), unrestrained long hair, excessively loose clothing and other items, which may be easily ignited or snag on apparatus are not allowed.
- Food, drink, candy, cosmetics, tobacco products, etc. are not allowed in the laboratory.
- Students are expected to be attentive to the material and any experiments and apparatus in the laboratory. The following must be turned off and stored away from the laboratory bench while in laboratories:
 - Portable music players (e.g. iPods, MP3 players and the like)
 - Cellular telephones, pagers, text messaging devices and the like
 - Other portable electronic devices as defined by the laboratory instructor
- Horseplay, practical jokes, "goofing around" or interfering with other students' work is not allowed in the laboratory.
- Students should not expect to be able to makeup missed laboratory sessions or experiments. If a makeup session is possible, it will be at the discretion of the laboratory instructor and will normally be during the same week as the missed laboratory section.
- Students will not be permitted to work in any laboratory section other than that they are registered for unless they have the **written approval** of both their regular instructor AND the instructor in the section they wish to enter.

Course instructors may modify these guidelines as necessary to meet the requirements of individual courses or chemical specialties in consultation with the Department Chairperson. Students should expect to receive a copy of these guidelines in their course syllabus or be given a copy by the course instructor (either in paper form or by electronic mail).

LABORATORY ATTENDANCE and REPORTS

All laboratory experiments must be performed and laboratory reports submitted. Each lab report will be due in the next laboratory period unless otherwise instructed by your lab instructor. For each day late, one point (out of ten) will be deducted from the grade. No lab reports will be accepted after your last laboratory meeting. In order to pass the overall course, the laboratory portion of the course must be passed.