



Sample Course Syllabus

Course 122 (5 Credits)

Instructor: Dr. Marita Barth Marita.Barth@oregonstate.edu

Course description: In this course, students will acquire a fundamental understanding of chemical reactions and scientific measurements, and become familiar with the principles, laws, and equations governing our understanding of chemical combination. Each student will be able to competently discuss concepts and solve problems relating to: atomic electron configuration, bonding and molecular structure (including Lewis structures), hybridization and molecular orbitals, intermolecular forces, solution behavior, kinetics and the principles of chemical equilibria.

Prerequisites/corequisites: One term of General Chemistry (CH 121, CH 201, CH 231, or equivalent)

Textbook: Please check with the [OSU Bookstore](#) for up-to-date textbook information for the term you enroll (<http://osubeaverstore.com/> or 800-595-0357). If you purchase course materials from other sources, be very careful to obtain the correct ISBN.

Time requirements: Success in this course often depends on the amount of time devoted to studying the material. This is a 5-credit course, and each credit is meant to reflect about 30 hours of effort.

Participation during the entire term is important to success in this class. Students who have not logged in to Blackboard by the *second Wednesday of the term* **will be dropped from the class**. Students with extenuating circumstances must email the instructor before this date.

Course Content:

- 8 Periodic Properties of the Elements
- 9 Chemical Bonding I: Lewis Theory
- 10 Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory
- 11 Liquids, Solids, and Intermolecular Forces
- 12 Solutions
- 13 Chemical Kinetics
- 14 Chemical Equilibrium

This course is offered through Oregon State University Extended Campus. For more information, contact:
Web: ecampus.oregonstate.edu Email: ecampus@oregonstate.edu Tel: 800-667-1465

Bacc Core Learning Outcomes: Biological and Physical Sciences

1. Recognize and apply concepts and theories of basic physical or biological sciences.
2. Apply scientific methodology and demonstrate the ability to draw conclusions based on observation, analysis, and synthesis.
3. Demonstrate connections with other subject areas.

Exams: The midterm and final exams *require a proctor*. Your proctor must be registered with Ecampus; you should set this up as soon as possible, or you will not be able to take your exams. Info about acceptable proctors and a proctor registration form can be found at: <http://ecampus.oregonstate.edu/services/proctoring>. If you do better on the final (as a percentage) than on the midterm exam, only the score for the final will be counted. In this case, it will be scaled to a score of 300 points for your "Exams" score. This scoring method rewards improved performance; it will happen automatically without any action from you.

Grading: Your point total is obtained by adding points from the exams, online homework, quizzes, and labs. These component point totals are indicated in the following table:

Component	Points
Midterm	100
Final	200
Homework	75
Quizzes	25
Labs	75
Total	475

Remember that your midterm may be counted or not, depending on your final exam score.

Your course grade is determined entirely from the total number of points accumulated. The following table provides the minimum number of points required to earn specific letter grades.

Grade	Points	%
A	437	92%
A-	428	90%
B+	418	88%
B	390	82%
B-	380	80%
C+	371	78%
C	342	72%

C-	333	70%
D+	323	68%
D	295	62%
D-	285	60%
F	Less than 285	

Services for Students with Disabilities:

Accommodations are a collaborative effort between students, faculty, and the Disability Access Services (DAS) office. Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to, or during, the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations, but who have not yet obtained approval through DAS, should contact DAS immediately at 541-737-4098.

Expectations for Student Conduct:

Student conduct is governed by the universities policies, as explained in the Office of Student Conduct: Information and Regulations. In an academic community, students and faculty, and staff each have responsibility for maintaining an appropriate learning environment, whether online or in the classroom. Students, faculty, and staff have the responsibility to treat each other with understanding, dignity, and respect. Further information may be found at: <http://oregonstate.edu/admin/stucon/achon.htm>

Academic Integrity:

Students are expected to comply with all regulations pertaining to academic dishonesty, defined as: *An intentional act of deception in which the student seeks to claim credit for the work or effort of another person or uses unauthorized materials or fabricated information in any academic work.* For further information, visit Avoiding Academic Dishonesty, or contact the office of Student Conduct and Mediation at 541-737-3656

Conduct in this online classroom:

Students are expected to conduct themselves in the course (e.g. on discussion boards, email postings) in compliance with the university's regulations regarding civility. Students will be expected to treat all others with the same respect as they would want afforded to themselves. Disrespectful behavior (such as harassing behavior, personal insults, inappropriate language) or disruptive behaviors are unacceptable and can result in sanctions as defined by Oregon Administrative Rules Division 015 Student Conduct Regulations.

Student Evaluation of Teaching:

We encourage you to engage in the course evaluation process each term – online, of course. The evaluation form will be available toward the end of each term, and you will be sent instructions through ONID. You will login to "Student Online

Services" to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.