

Porterville College
Chemistry 106 - Introduction to Chemical Principles
CRN 32172 - Spring 2012

Meet Your Instructor	Christopher "Buzz" Piersol Phone (voice): (559) 791-2346 Text Messaging: (559) 791-8346 E-mail: cpiersol@portervillecollege.edu Web: http://www.pc.cc.ca.us/piersol/chem106
Lecture Meetings	SM-220 TR 8 – 9:35 a.m.
Lab Meetings	SM-220 M 9:35 a.m. – 12:45 p.m.
Instructor Available Exclusively for Students (i.e. Office Hours)	SM-211F M 3 - 4 p.m. (NOTE: exterior T 9:30 - 11 a.m. door is labeled W 11 a.m. - noon "Offices") R 9:30 - 11 a.m. <i>and also by arrangement!</i>
Required Materials	The following materials must be obtained by the end of the first week of classes: <ul style="list-style-type: none">✓ Text: Basic Chemistry, Zumdahl/DeCoste, 7th Ed ISBN 0538736372✓ Scientific Calculator✓ Approved splash safety goggles, indirect vent (Purchase or borrow)
Students with Disabilities	State and federal regulations require equal access to education for students with disabilities. If you require alternate media, or other disability services, please visit the Disability Resource Center in AC-115, or contact them by phone at 791-2324.
Tutors	The Learning Center (LRC-503) offers tutors in subject-specific discipline. These are usually available by the 2 nd or 3 rd week of the semester.
Handouts	All handouts are posted to the website. Handouts will be distributed throughout the semester. Check the website if you missed a handout.
Grading Criteria	Final grade percentages will be based on the <u>weighting of scores</u> of weekly quizzes, the graded mid-term examination, graded final examination, completed homework assignments, and graded laboratory assignments. Progress reports will be posted on the classroom bulletin board during the semester.
Attendance:	This course will move fast. It is necessary to attend class regularly. Students absent for the duration of the first week will likely be dropped, as there is a very long waiting list for this class. During course, the instructor may drop students who excessively miss class. Please see below for Withdrawal Policy.

Grade Breakdown

Homework 5%	Homework is assigned and due on a weekly basis. Completion of homework assignments on time is <i>essential</i> for performing well in the course. Homework assignments are due each week on Wednesday before the quiz. Any homework assignment that is turned in late receives less than full credit, <i>regardless of the reason it was turned in late</i> . Extremely late homework (more than 5 weeks) will receive <u>zero credit</u> .
Weekly Quizzes 25%	A short quiz will be given every Wednesday, except the first week of classes, mid-term week, and final exam week. Quizzes will be based on the material covered in the previous lecture sessions and homework assignment. The quiz grade will be the average of the weekly quizzes not including the student's <u>lowest two quiz scores</u> .
Labs/Prelabs 20%	Labs must either be turned in by the end of the class period or at the next class meeting, as announced in class. Labs turned in late result in reduced credit.
Midterm Exam 25%	The midterm examination will be on Monday, March 19, 2012, during the laboratory meeting , and will cover any material covered in-class, homework assignments, reading, and quizzes. A green scantron scoresheet will be needed.
Cumulative Final Exam 25%	The final examination will be on Tuesday, May 8, 2012 at 7:30 a.m. , and will cover any material covered in-class, homework assignments, reading, and quizzes. You will need a green scantron scoresheet.

Percent Earned	Final Grade
89.5 % and above	A
79.5% to below 89.5%	B
69.5% to below 79.5%	C
59.5% to below 69.5%	D
Below 59.5%	F

Weighted grades means your overall percentage is determined by taking the average percentage in each area above, and multiplying it by the weight percent. If you have any questions, please contact the instructor.

Other Wonderful Things (Class Policy)

Make-Up Policy: As I drop the 2 lowest quizzes, there will be absolutely no quiz make-ups-No Exceptions. Laboratory, midterm exam and final exam make-ups will only be allowed **only** if the instructor is contacted **prior to, or during** the absence and for **unavoidable** absences only. If a laboratory make-up is not possible, an assignment will be given.

Withdrawal Policy: Withdrawal by the **30% date** (Tue Feb 21, 2012) does not result in mark on your transcript. Withdrawal by the **60% date** (Fri Mar 30, 2012), from the course results in a 'W' on your transcript. Students cannot withdraw from a course after the 60% date. A student who is not attending class and does not officially withdraw through admissions will likely receive a grade of 'F' on his/her transcript. Be sure you understand this policy! *It is the student's responsibility to ensure that he/she has withdrawn from the class!* For more information, please refer to the current PC catalog.

Cell Phones Please keep your cell phone off or on silent/vibrate. Please do not answer the phone in class. If you are expecting an emergency call and need to answer it, please quietly leave the room before answering the call. Cell phones must be turned completely off during a test, and are **not a substitute for a scientific calculator!**

Chemistry 106 Expectations Please see my handout for classroom/lab expectations. Consider this to be an addendum to this syllabus.

Student Learning Outcomes By the completion of this course the student should be able to:

- A. Solve problems dealing with significant figures, scientific notation, and unit conversion involving moles, weight, percentage composition, theoretical yield, solutions, and stoichiometry using dimensional analysis.
- B. Give the name/symbol/formula of an element, ion or inorganic compound, and draw Lewis Dot and 3-Dimensional structures, predicting bond angle, hybridization, and electron configuration of atoms, molecules, and ions.
- C. Describe and explain the structure of the atom, including sub-atomic particles, isotopes, orbitals, and atomic mass, using early and modern atomic theory.
- D. Write, balance, classify, and predict the products of chemical equations
- E. Describe properties of gases and solve problems using the gas laws, including gas stoichiometry.

Spring 2012 Semester Schedule

The following is an approximate weekly schedule.

Week	Week Begin	Read Chapter	Homework Chapter	Laboratory Activity
1	1/16	1,2	1,2	No lab—MLK Jr Holiday
2	1/23	3	2	Lab Check-In / Safety / Lecture
3	1/30	3,4	3,4	Measurements & Densities
4	2/6	3,4	4	Recognizing a Chemical Reaction
5	2/13	5,6	5	Catch-up Lecture
6	2/20	5,6	6	No Lab – Washington Day Holiday
7	2/27	5,6	6	Paper Chromatography
8	3/5	7	7	Analysis of a Penny
9	3/12	8	8	Review for Midterm
10	3/19	1-9	Study Questions	Midterm Exam: Monday, March 19, 9:35 a.m.
11	3/26	9,10	10	Determination of Empirical Formula of a Compound
12	4/9	11,12	11	Quantitative Precipitation
13	4/16	11,12	12	Finish Quantitative Precipitation Catch-Up Lecture
14	4/23	13,14	13	Molecular Models
15	4/30	13,14	14	Acid-Base Titration
16	Tues 5/8	No Regular Classes No Homework Due		Final Exam: Tuesday, May 8, 7:30 – 9:30 a.m.