

Porterville College
Chemistry 106 - Introduction to Chemical Principles
CRN 30090 - Spring 2019

Meet Your Instructor	Christopher “Buzz” Piersol Phone: (559) 791-2346 E-mail: cpiersol@portervillecollege.edu Web: http://www.pc.cc.ca.us/piersol/chem106 Online Homework: http://www.saplinglearning.com/ibiscms/ Class Reminders: Send text to 81010 with the message @chem106
Lecture Meetings	SMSS-220 TR 8 – 9:25 a.m.
Laboratory Meetings	SMSS-220 W 8 – 11:10 a.m.
Office Hours	SMSS-211F M 10:00 a.m. – 11:00 a.m. (Second floor T 10:30 a.m. – 12:00 p.m. offices facing W 2:30 p.m. – 3:30 p.m. quad) R 10:00 a.m. – 11:00 a.m. <i>and also by arrangement!</i>
Required Materials	Required by the end of the first week of classes: <ul style="list-style-type: none">✓ Text: Basic Chemistry, Zumdahl/DeCoste, 8th Ed (I SBN 9781285453149)✓ Sapling Online Homework (bookstore or https://bit.ly/2TLEDTi)✓ 2018-2019 CHEM 106 Lab Manual (available <u>only</u> in the PC Bookstore)✓ Scientific Calculator (I recommend Casio fx series) Recommended: <ul style="list-style-type: none">✓ Your own pair of approved splash safety goggles, indirect vent✓ Nomenclature Flash Cards (available <u>only</u> in the PC Bookstore)
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. 1-Page handouts are provided in a packet. Check the website if you missed a handout.
Grading Criteria	Final grade percentages will be based on the <u>weighting of scores</u> of performance in: online homework assignments, weekly quizzes, laboratory assignments, a mid-term examination, and a final examination. Grade progress will be posted online via Canvas: https://kccd.instructure.com/courses/26778

Grade Breakdown

<p>Online Homework 10%</p>	<p>The online homework is by Sapling Learning. In most cases, it is due every Wednesday night each week. I have summarized how the online homework works and weekly due dates in a separate handout. Get started by visiting https://bit.ly/2OAsSwl.</p>
<p>Weekly Quizzes 25%</p>	<p>A short quiz will be given at the beginning of class <u>every Thursday</u>, 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, reading and homework assignment. Your quiz percentage will be the average of the weekly quizzes <u>not including your lowest two quiz scores</u>.</p>
<p>Laboratory 20%</p>	<p>Your laboratory percentage includes participation, performance on the lab, and post-laboratory questions. The lab manual contains each experiment you will perform along with your lab partner. Before every lab, please review the experiment you will be performing. Consult the schedule for the labs we will be doing each lab meeting. You will turn in the lab manual each week, usually at the end of the lab meeting, as announced in class. If you turn in your lab manual late, you may lose <u>credit</u>. Your lab percentage will be the average of all the lab grades <u>not including your lowest lab</u>.</p>
<p>Midterm Exam 22.5%</p>	<p>The midterm examination will be on Wednesday, March 6, 2019 (during the laboratory meeting), and will cover all material from in-class lectures, online homework assignments, reading, and quizzes. You will need a green scantron scoresheet.</p>
<p>Cumulative Final Exam 22.5%</p>	<p>The final examination will be on Wednesday, May 8, 2019 at 7:30 a.m., and will cover all material from in-class lectures, online homework assignments, reading, and quizzes for the <u>entire term</u>. You will need a green scantron scoresheet.</p>

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

ABOUT WEIGHTED GRADES

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

CHEMISTRY 106 POLICIES

- Cell Phones:** Please keep your cell phone off or on silent/vibrate. Please do not answer your phone in class. If you are expecting an emergency call, please quietly leave the room before answering the call. Any device may be used as a supplement to the learning environment to the extent that it is **not distracting** you or others from learning and participating. Partaking in games, social media, text messaging, etc are not allowed. During quizzes and examinations, your cell phone must be turned off and **put away completely** (not in your pocket) and is **not a substitute for a scientific calculator**.
- Make-Up Policy:** Since I drop the 2 lowest quizzes, there will be absolutely no quiz make-ups--No Exceptions. I drop the lowest laboratory—if you miss a lab, that will be dropped. If you will miss the midterm or final exam, make-ups will be allowed **only** if you contact your professor **prior to, or during** the absence and for **unavoidable** absences only. If you arrive late to lab without contacting instructor prior to lab, your lab assignment grade will be deducted proportional to the time missed.
- 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 waiting list for this class. During course, your professor may drop students who excessively miss class. Read further for Withdrawal Policy.
- Withdrawal Policy:** Withdrawal by the **20% date** (Sunday January 27) results in no mark on your transcript. After the 20% date, withdrawal by the **60% date** (Friday March 29), 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 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 [PC catalog](#).
- Chemistry 106 Expectations** Please see my handout for classroom/lab expectations. This is an extension of this syllabus.
- Student Learning Outcomes** By the completion of this course the student should be able to:
- Solve problems dealing with significant figures, scientific notation, and unit conversion involving moles, weight, percentage composition, theoretical yield, solutions, and stoichiometry using dimensional analysis.
 - 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.
 - Describe and explain the structure of the atom, including sub-atomic particles, isotopes, orbitals, and atomic mass, using early and modern atomic theory.
 - Write, balance, classify, and predict the products of chemical equations
 - Describe properties of gases and solve problems using the gas laws, including gas stoichiometry.

Spring 2019 Semester Schedule

The following is an approximate weekly schedule. Week Begin dates are Tuesdays.

Week	Week Begin	Lecture/Read Chapter	Laboratory Activity (Tuesday)
1	1/15	1,2	<i>Check-in / Safety / Equipment</i>
2	1/22	2 cont.	1. Measurements and Densities
3	1/29	3,4	<i>Catch-Up Lecture</i>
4	2/5	4	2. Recognizing Chemical Change
5	2/12	11	<i>Catch-up Lecture</i>
6	2/19	12	3. Molecular Modeling
7	2/26	5	4. Nomenclature Drills
8	3/5	review 1-5,11,12	Midterm Examination (during lab meeting)
9	3/12	5 cont.	6. Chemical Reactions and Classifications
—	3/19	<i>Spring Recess – No class or lab meetings</i>	
10	3/26	6,7	Mole Activity
11	4/2	8	7. Empirical Formula Determination
12	4/9	9	8. Quantitative Precipitation – Stoichiometry
13	4/16	13	5. Cooling Curve
14	4/23	14	9. Paper Chromatography
15	4/30	15	10. Acid Base Titration
16	Thu 12/6	No Regular Classes No Homework Due	Final Exam: Wednesday May 8, 7:30 a.m. – 9:30 a.m.